This printed version of the Schedule of Classes is current as of 8/19/19 9:33 AM.

AAPS Academic Achievement Programs Summer 2019

AAPS300 **Corporate Social Responsibility in Ghana: A Strategy for Sustainable Educational Development**

Credits: 3 Grading Method: Regular

Restriction: Participants must have a minimum GPA of 2.75 and must be of Sophomore, Junior or Senior status at the time of travel. Additional information: The course includes two pre-departure in-person orientations, online class meetings, in-country field work, and a post-travel in-person presentation upon return.

Corporate Social Responsibility (CSR) is proposed as an alternate development strategy that recognizes the power of Multinational Corporations in a globalized world, as an agent with the potential to bring about positive change in developing nations. Students will examine both individual and organizational/corporate practices in Ghana and its impact on educational development opportunities for marginalized groups.

SAGN	Rhea Nedd	Seats (Total: 0)
	Meets August 5, 2019 - August 15, 2019	
	Contact instructor or department for details.	

AASP African American Studies Summer 2019

AASP100 **Introduction to African American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0201	Jason Nichols	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	TuWTh 10:00am - 12:15pm	TYD 1132
WB11	Jason Nichols	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

AASP101 **Public Policy and the Black Community**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Formerly: AASP300.

The impact of public policies on the black community and the role of the policy process in affecting the social, economic and political well-being of minorities. Particular attention given to the post-1960 to present era.

WB11	Alana Hackshaw	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

AASP202 **Black Culture in the United States**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH, D	General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

WB11	Robert Choflet	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
WB21	Robert Choflet	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

AASP211 **Get Out: The Sunken Place of Race Relations in the Post-Racial Era**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: AASP298G or AASP211. Formerly: AASP298G.

Prevailing thought suggests that we live in an era that is post-racial, particularly after the election of Barack Obama. Media often serves to drive our assessment of where our nation stands on issues like race, gender and sexuality. This course uses the film Get Out to delve into the production, evolution and significance of race in present day America. The course will engage multiple forms of media to investigate life in "Post-Racial" America, including but not limited to the role of stereotypes, interracial relationships, police-community relations, etc.

WB11	Jonathan England	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

AASP398P **Selected Topics in the African Diaspora; Peoples and Culture of Africa**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

Contact department for information to register for this course.

AASP468Y **Special Topics in Africa and the Americas; Exploring Contemporary South Africa**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Cultural, historical and artistic dimensions of the African experience in Africa and the Americas.

Contact department for information to register for this course.

AASP468Z **Special Topics in Africa and the Americas; Understanding Social Inequalities in Post-Apartheid South Africa**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Cultural, historical and artistic dimensions of the African experience in Africa and the Americas.

Contact department for information to register for this course.

AASP498E **Special Topics in Black Culture; A Critical Understanding of Hip Hop Culture and its Impact on Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

A critical exploration of Hip Hop and how it transcends race, socioeconomic background, culture, and gender.

WB11	Solomon Comissiong	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

AASP498I **Special Topics in Black Culture; Women and the Civil Rights Movement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Also offered as HIST360 and WMST498M. Credit granted for AASP498I, HIST360 or WMST498M.

WB51	Elsa Barkley Brown	Seats (Total: 40)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

AASP498M **Special Topics in Black Culture; Black Masculinity in Mass Media: How Blackness has formed (and Re-formed) in U.S. Entertainment Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

WB11	Shane Walsh	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	The goal of this class is to present to new students how entertainment and media product creation throughout the 19th and 20th centuries have directly shaped the forms of leisure activity that they enjoy today. Thedepictions of Blackness and masculinity in movies and television are in key focus for this course.	

AASP498R **Special Topics in Black Culture; Race and Sports**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

A web-based class which uses print media and film to investigate the relationship between two issues that play a large rolein American society--race and sports. All lectures, readings and assignments will be available via Blackboard. If there are questions, please contact the instructor at jenglan1@umd.edu.

WB21	Jonathan England	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

AASP498Z **Special Topics in Black Culture; Black Women in Popular Culture: From the Blues to Beyonce'**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Students will develop a broad understand of African American women in popular culture through the study of a variety of cultural forms such asliterary texts, films, documentaries, visual art and novels. Students will develop an understanding of the connections between African American womens cultural forms and the historical contexts our of which these cultural traditions arose.

WB21	Renina Jarmon	Seats (Total: 35)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

AASP499F **Advanced Topics in Public Policy and the Black Community; Black Politics and Policy: A Multimedia Approach**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

This is an online course that uses media (films like 12 Years a Slave, Boyz N the Hood and Do the Right Thing and documentaries) and primary documents to investigate African-American politics in thepost-Civil Rights Era and policy issues such as education, the prison industrial complex and welfare. Please contact the instructor at jenglan1@umd.edu for more information.

WB41	Jonathan England	Seats (Total: 50)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

AAST Asian American Studies Summer 2019

AAST398L **Selected Topics in Asian American Studies; Asian American Film**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328W. Credit granted for AAST398L or AMST328W. This course explores how Asian Americans have historically been represented in the U.S. by Hollywood, and in turn, how independent and Hollywood Asian American filmmakers have represented themselves. It covers the history of racial, gendered, and sexualized representations of Asian Americans in Hollywood, as well as Asian American filmic responses within and outside Hollywood. It also introduces how four basic tools of film analysis mise-en-scene, cinematography, editing and sound work together to create meaning in moving images. It examines how these elements are put together in three different types of films by Asian American filmmakers: narrative, documentary, and experimental. How films function in society to circulate ideas that reproduce and challenge stereotypes about Asian Americans.

WB60	Terry Park	Seats (Total: 20)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

AMSC Applied Mathematics & Scientific Computation Summer 2019

AMSC498A **Selected Topics in Applied Mathematics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Topics in applied mathematics of special interest to advanced undergraduate students.

Contact department for information to register for this course.

AMSC689 **Research Interactions in Applied Mathematics and Scientific Computation**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC689A **Research Interactions in Applied Mathematics and Scientific Computation**

Credits: 1-3

Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC698A **Advanced Topics in Applied Mathematics**

(Perm req) Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

AMSC760 **Applied Statistics Practicum**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed one year of graduate study in Applied Statistics. Restriction: Must have project proposal approved by SAC coordinator.

A semester long applied applied statistical project (a minimum 10 hours per week or 120 hours in total), in an internship of collaborative research-laboratory setting working on a substantive applied quantitative project with significant statistical content.

0201	Instructor: TBA	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

AMSC799 **Master's Thesis Research**

(Perm req) Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC898 **Pre-Candidacy Research**

(Perm req) Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST American Studies Summer 2019

AMST101 **Introduction American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP

Credit only granted for: AMST101 or AMST201. Formerly: AMST201.

Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.

0201	Shoji Sanders **Meets July 8, 2019 - August 16, 2019** TuWTh 9:00am - 11:15am	Seats (Total: 2) ASY 3211
WB11	Xinqian Qiu **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE
WB12	Christina Sessoms **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE
WB21	Timothy Kumfer **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE

AMST203 **Popular Culture in America**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HO	General Education: DSHU, DVUP

An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.

WB11	Robert Jiles **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE
WB12	Melissa Benitez **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE
WB21	Brienne Adams **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE

WB22	A Anthony	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

AMST204 **Film and American Culture Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DVUP

Exploration of the American film from a historical perspective, illustrating the motion picture's role as an institutional phenomenon, as a form of communication, and as a source of cross-cultural study.

YS41	Susan Pramschufer	Seats (Total: 6)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:00pm	HBK 1112
	This section is part of Terp Young Scholars. Enrollment by permission only. Please access the Summer Programs website for further information.	

AMST269I **Special Topics in Study Abroad II; Images of Italian Americans in Film**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

AMST289A **Shifting Sands: Constructing Cultural Mainstreams and Margins in the U.S.**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHS, DSHU, DVUP, SCIS

WB21	Robert Chester	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

AMST328W **Perspectives on Identity and Culture; Asian American Film**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as AAST398L. Credit granted for AMST328W or AAST398L. This course explores how Asian Americans have historically been represented in the U.S. by Hollywood, and in turn, how independent and Hollywood Asian American filmmakers have represented themselves. It covers the history of racial, gendered, and sexualized representations of Asian Americans in Hollywood, as well as Asian American filmic responses within and outside Hollywood. It also introduces how four basic tools of film analysis mise-en-scene, cinematography, editing and sound work together to create meaning in moving images. It examines how these elements are put together in three different types of films by Asian American filmmakers: narrative, documentary, and experimental. How films function in society to circulate ideas that reproduce and challenge stereotypes about Asian Americans.

WB60	Terry Park	Seats (Total: 20)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

AMST369F **Special Topics in Study Abroad III**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

AMST386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-American Studies department; and junior standing or higher.

I201	Asim Ali	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

AMST398 **Independent Studies**

Credits: 1-3 Grading Method: Regular

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

I204	Robert Chester	Seats (Total: 1)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

AMST498F **Special Topics in American Studies; Global Media Literacy**

Credits: 3 Grading Method: Regular

Topics of special interest.

Contact department for information to register for this course.

AMST498Z **Special Topics in American Studies; Globalization and Gendered Migrations**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as AMST498Z. Credit only granted for USLT498X or AMST498Z. This course will explore how scholars have theorized and defined the process of contemporary globalization and its consequences. Students will look at the relationship between local communities and the global economic and political forces that affect the daily lives of many Latina/os in the United States. Although this class has a United States and Latina/o focus, we will also move beyond the U.S. borders and talk about other immigrant and refugee groups that live and work in the same neighborhoods and workplaces in which Latina/os live and toil. Themes of the course include, but are not limited to, theories and approaches to globalization, refugees, sexuality and family along the border, transnational families, gendered migrations, sweatshops, intimate labor, and Deferred Action for Childhood Arrivals (DACA).

WB21	Jacqueline Partida **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE

AMST798 **Non-Thesis Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

AMST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

I101	Psyche Williams-Forson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 1)
I201	Psyche Williams-Forson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)

AMST899 **Doctoral Dissertation Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANSC Animal Science Summer 2019

ANSC389 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

0201	Sarah Balcom	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ANSC399 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.

Contact department for information to register for this course.

ANSC699 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Work assigned in proportion to amount of credit. Prerequisite: approval of staff. Problems will be assigned which relate specifically to the character of work the student is pursuing.

Contact department for information to register for this course.

ANSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ANTH Anthropology Summer 2019

ANTH221 **Introduction to Forensic Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Credit only granted for: ANTH298A or ANTH221. Formerly: ANTH298A.

Provides a brief history of forensic sciences, an introduction to some of the techniques used, and a demonstration of some of the applications of forensic sciences. A survey course designed to give the student some exposure to the kinds of scientific knowledge and techniques applied to the medico-legal investigation of death and other crimes.

YS41	Erin Guthrie	Seats (Total: 23)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:00am - 12:00pm	WDS 0124C	
	This section is part of Terp Young Scholars. Enrollment by permission only.		

ANTH222 **Introduction to Ecological and Evolutionary Anthropology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL, DVUP

Credit only granted for: ANTH220 or ANTH222.

An introduction to the evolution of human physiology and human behavior, the relationship between hominid and non-hominid primates, and the study of relationships between a population of humans and their biophysical environment.

HY31	Miguel Vilar	Seats (Total: 20)	
	Meets May 28, 2019 - June 14, 2019		
	MWF 9:00am - 12:15pm	WDS 1114	
	TuTh 1:00pm - 6:00pm	WDS 0124C	Lab
	Class time/details on ELMs	ONLINE	Discussion

ANTH238B **Special Topics Study Abroad II; Lived Existence: Perspective in Native American Identity**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ANTH240 **Introduction to Archaeology**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB, D	General Education: DSHS, DVUP

Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

WB21	Joshua Samuels	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ANTH260 **Introduction to Sociocultural Anthropology and Linguistics**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB, D	General Education: DSHS, DVUP

Culture and social relationships in a wide variety of settings from small-scale to complex societies. An overview of how anthropology analyzes human behavior. Particular attention to the relationship between language and culture.

WB41	Jana Kopelentova Rehak	Seats (Total: 25)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

ANTH263 **Sexuality and Culture**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS, DVUP

Credit only granted for: ANTH298K or ANTH263. Formerly: ANTH298K.

An overview of sexuality from an anthropological perspective, looking at aspects of sexuality within our own culture and in cultures around the world. Course topics include the biology and culture of sex, gender, physical attraction, sexual orientation, marriage and mating taboos, fertility control, sexually transmitted diseases, and commercial aspects of sex.

WB11	Charneka Lane	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

ANTH266 **Changing Climate, Changing Cultures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVCC, SCIS

Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.

0101	Jared Schultz **Meets May 28, 2019 - July 5, 2019** MTuTh 2:00pm - 4:30pm	Seats (Total: 25) WDS 1114	
HY41	Stanley Herman **Meets July 8, 2019 - July 26, 2019** TuTh 12:00pm - 4:00pm Class time/details on ELMs	Seats (Total: 25) WDS 1114 ONLINE	 Discussion

ANTH358A **Undergraduate Teaching Assistant**

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH360 **Method and Theory in Sociocultural Anthropology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH260. Restriction: Must be in Anthropology program; or permission of BSOS-Anthropology department.

Theoretical approaches and research methods in sociocultural anthropology. Emphasis on current debates, new directions, and their historical antecedents.

Open to all majors in Summer 2019.

HY11	Stanley Herman **Meets May 28, 2019 - July 5, 2019** TuTh 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 30) KEY 0100 ONLINE	 Discussion

ANTH386 **Experiential Learning**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail

Recommended: Completion of advanced courses in relevant subfield of anthropology recommended. Restriction: Permission of BSOS-Anthropology department; and junior standing or higher; and must be in Anthropology program.

Approval of instructor required; check with Department for section (and index) number.

Contact department for information to register for this course.

ANTH398A **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Approval of Instructor required; check with Department for section (and index) number.

Contact department for information to register for this course.

ANTH398J **Independent Study; Archaeology Practicum**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH445 **Laboratory Methods in Archaeology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH496. Recommended: ANTH240.

The processing, curation, cataloging and analysis of data is an important part of any archaeology field project. Students will learn that basics of laboratory techniques necessary for the final analysis and interpretation of field data.

0401	Mark Leone	Seats (Total: 20)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:00am - 5:00pm	WDS 1124	Lab
	This lab section will work with finds from the Annapolis field school led by Leone, Deeley, Pruitt and Skolnik.		
0403	Paul Shackel	Seats (Total: 20)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:00am - 5:00pm	WDS 1125	Lab
	This lab section will work with finds from the Lattimer Field School le by Shackel.		

ANTH474 **Language Racism & Identity**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An exploration of the relationship between language, identity and racism in a variety of social contexts, in the U.S. and elsewhere.

WB11	Jacqueline Messing	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

ANTH476 **Senior Research**

Credits: 3-4

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Anthropology program. Credit only granted for: ANTH476 or ANTH486.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of a senior thesis in anthropology.

Contact department for information to register for this course.

ANTH477 **Senior Thesis**

Credits: 3-4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH476. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program. Credit only granted for: ANTH477 or ANTH487.

Capstone course in which students write a senior thesis on independent research into a current problem in anthropology. The thesis is defined before a committee of faculty.

Contact department for information to register for this course.

ANTH486 **Honors Research**

Credits: 3-4

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH486 or ANTH476.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of an honors thesis in anthropology.

Contact department for information to register for this course.

ANTH487 **Honors Thesis**

Credits: 3-4 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH486. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH487 or ANTH477.

Capstone course in which students write a thesis on the results of independent research into a current problem in anthropology.

Contact department for information to register for this course.

ANTH496 **Field Methods in Archaeology**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVUP

Field training in the techniques of archaeological survey and excavation.

Also offered as ANTH696 and SUMM015.

XI11	Mark Leone	Seats (Total: 24)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 8:00am - 4:00pm	Location: TBA

ANTH498C **Advanced Field Training in Ethnography; Brazil: Environmental Conservation & Indigenous Peoples**

Credits: 3-6 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVCC

Experience in field research utilizing a variety of ethnographic method of inquiry.

Contact department for information to register for this course.

ANTH498J **Advanced Field Training in Ethnography; Jamaica: Ethnographic Fieldwork/Ethnographic Assessment and Expressive Culture**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Experience in field research utilizing a variety of ethnographic method of inquiry.

Contact department for information to register for this course.

ANTH498M **Advanced Field Training in Ethnography; Suriname: Ethnographic Fieldwork-National Celebration, Integration and Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Experience in field research utilizing a variety of ethnographic method of inquiry.

Contact department for information to register for this course.

ANTH498W **Advanced Field Training in Ethnography; Jamaica: Connections, Celebration and Identity**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Experience in field research utilizing a variety of ethnographic method of inquiry.

Contact department for information to register for this course.

ANTH498Y **Advanced Field Training in Ethnography; Field Methods in Public Archaeology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, DVUP

Experience in field research utilizing a variety of ethnographic method of inquiry.

XI31	Mark Leone **Meets May 28, 2019 - June 14, 2019** MTuWThF 8:00am - 4:00pm *Excavations will be Annapolis and Maryland's Eastern Shore. Contact instructor regarding transportation.*	Seats (Total: 15) Location: TBA
XI51	Mark Leone **Meets June 17, 2019 - July 5, 2019** MTuWThF 8:00am - 4:00pm *Excavations will be Annapolis and Maryland's Eastern Shore. Contact instructor regarding transportation.*	Seats (Total: 15) Location: TBA

ANTH674 **Language Racism & Identity**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH474, ANTH469R, ANTH674, or ANTH689R.

This course explores the relationship between language, identity and racism in a variety of social contexts, in the U.S. and elsewhere.

WB11	Jacqueline Messing **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 10) ONLINE

ANTH688A **Current Developments in Anthropology**

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

Contact department for information to register for this course.

ANTH688Y **Current Developments in Anthropology; Field Methods in Public Archaeology**

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

Excavation site will be near Lattimer, Pennsylvania. Students are responsible for their own transportation. Contact instructor for local housing options.

XI31	Mark Leone **Meets May 28, 2019 - June 14, 2019** MTuWThF 8:00am - 4:00pm	Seats (Total: 15) Location: TBA
XI51	Mark Leone **Meets June 17, 2019 - July 5, 2019** MTuWThF 8:00am - 4:00pm	Seats (Total: 15) Location: TBA

ANTH689A **Special Problems in Anthropology**

(Perm req)

Credits: 1-6 Grading Method: Regular

Approval of instructor required; check with Department for section (and index) number.

Contact department for information to register for this course.

ANTH689M **Special Problems in Anthropology; Suriname: Ethnographic Fieldwork-National Celebration, Integration and Identity**

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

ANTH696 **Field Methods in Archaeology**

Credits: 6 Grading Method: Regular, Audit

Formerly: ANTH699.

Field training in the techniques of archaeological survey and excavation.

Also offered as ANTH496 and SUMM015.

Contact department for information to register for this course.

ANTH698C **Advanced Field Training in Ethnology; Brazil: Ethnographic Fieldwork**

Credits: 3-6 Grading Method: Regular, Audit

Experience in field research utilizing a variety of enthnographic methods of inquiry.

Contact department for information to register for this course.

ANTH698J **Advanced Field Training in Ethnology; Jamaica: Ethnographic Fieldwork/Ethnographic Assessment and Expressive Culture**

Credits: 6 Grading Method: Regular, Audit

Experience in field research utilizing a variety of enthnographic methods of inquiry.

Contact department for information to register for this course.

ANTH698W **Advanced Field Training in Ethnology; Jamaica: Connections, Celebration and Identity**

Credits: 6 Grading Method: Regular, Audit

Experience in field research utilizing a variety of enthnographic methods of inquiry.

Contact department for information to register for this course.

ANTH701 **Anthropology Internship Preparation**

Credits: 3 Grading Method: Regular, Audit

Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.

I112	Paul Shackel	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

ANTH712 **Anthropology Internship Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ANTH789.

The preparation and presentation of internship results, and the development of skills in report writing and presentation. Includes the completion of a professional quality report or publishable paper based on the internship experience.

Contact department for information to register for this course.

ANTH788 **Internship Research**

Credits: 1-3 Grading Method: Regular, Audit

This course augments ANTH 789 and is graded in conjunction with it.

Contact department for information to register for this course.

ANTH789 **Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Individual instruction course supervised by a department faculty member.

Contact department for information to register for this course.

ANTH857 **Museum Scholarship Practicum**

Credits: 3 Grading Method: Regular

Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with HIST811, AMST857. Credit only granted for: AMST857, ANTH857, or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

I201	Mary Alexander	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ANTH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANTH899 **Doctoral Dissertation Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC Atmospheric and Oceanic Science Summer 2019

AOSC247 **Scientific Programming: Python**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140. Recommended: Familiarity with basic descriptive statistics. Credit only granted for: AOSC458J, AOSC247 or CMSC131. Formerly: AOSC458J.

A comprehensive introduction to scientific computation and visualization techniques with Python applied to data intensive questions in the Natural Sciences. The class emphasizes real-world applications, providing students with essential hands-on experience using Python for data analysis and visualization, developing analytical skills for observational and modeling data, and performing virtual experiments to distinguish data contributing factors. Students will gain an understanding of the scientific data issues including: signal vs noise, trend vs periodicity, mean vs extreme changes, and accuracy vs uncertainty. Students will gain extensive experience using command line linux. Skills including local and remote file transfer and synchronization, file and directory permission, utilities for diagnosing performance issues, and data compression.

Students must pay a $60.00 laboratory materials fee.

0101	Jeffrey Henrikson **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:10am - 12:30pm	Seats (Total: 26) ATL 3426
WB11	Jeffrey Henrikson **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

AOSC499 **Special Problems in Atmospheric Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study in the field of meteorology and the atmospheric and oceanic sciences.

0108	Rachel Pinker **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0112	Timothy Canty **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0206	Ning Zeng **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)
0208	Rachel Pinker **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0212	Timothy Canty **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

AOSC798 Directed Graduate Research

Credits: 1-3 Grading Method: Sat-Fail

0101	James Carton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0103	Raghu Murtugudde **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0104	Raghu Murtugudde **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0105	Antonio Busalacchi **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0115	Kenneth Pickering **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 1)
0126	Da-Lin Zhang **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0203	Kayo Ide **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0204	Raghu Murtugudde **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0205	Da-Lin Zhang **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0206	Kenneth Pickering **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0207	Zhanqing Li **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0208	Dale Allen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0221	Ernesto Berbery **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0225	Xin-Zhong Liang **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

AOSC898 Pre-Candidacy Research

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC899 **Doctoral Dissertation Research**

Credits: 1-8

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ARAB Arabic Summer 2019

ARAB104 **Elementary Modern Standard Arabic I-II**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

An intensive course focusing on developing functional proficiency in th standard Arabic language, both written and formal spoken. Begins with script and phonology, and develops into a limited range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

SA02	Nahal Akbari-Saneh **Meets May 29, 2019 - July 26, 2019** Contact instructor or department for details.	Seats (Total: 0)

ARAB105 **Elementary Modern Standard Arabic III-IV**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB104; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Continuation of ARAB104, developing further linguistic proficiency in Standard Arabic, both written and formal spoken. Covers an extended range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

SA02	Nahal Akbari-Saneh	Seats (Total: 0)
	Meets May 29, 2019 - July 26, 2019	
	Contact instructor or department for details.	

ARAB204 **Intermediate Modern Standard Arabic I**

(Perm req)

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ARAB105; and must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Covers topics related to contemporary Arabic society, literature and culture in standard written and formal spoken Arabic. Acquisition of more complex grammatical structures, expanding vocabulary, and reading, to develop a better understanding of the formal aspects of using MSA.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

Contact department for information to register for this course.

ARAB205 **Intermediate Modern Standard Arabic II**

(Perm req)

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ARAB204; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Continuation of ARAB204, with exposure to a wide range of Arabic texts from different domains. Focus on vocabulary, more complex grammatical forms, and a better understanding of the formal aspects of using MSA as well as the cultural aspects of using the language.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

Contact department for information to register for this course.

ARAB315 **Intensive Advanced Arabic I**

(Perm req)

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed ARAB304.

Intensive training in written and spoken Arabic at the Advanced-low level of proficiency. Additional intensive training in effective listening and reading skills. Substantial cultural component exploring traditions and customs of the Middle East in addition to current social issues.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

Contact department for information to register for this course.

ARAB316 **Intensive Advanced Arabic II**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB304 or ARAB315; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed ARAB305. Credit only granted for: ARAB305 or ARAB316.

Intensive training in written and spoken Arabic at the Advanced-mid level of proficiency. Additional training in effective listening and reading skills. Substantial cultural component exploring traditions and customs of the Middle East in addition to current social issues.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

Contact department for information to register for this course.

ARCH Architecture Summer 2019

ARCH150 **Discovering Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARCH-Architecture Program.

Introduction to architecture and design studio education. The course examines fundamental design principles and skills related to architecture. The design studio projects apply ideas and concepts introduced in lectures, readings and on site visits. The design studio projects are both analytic and synthetic in nature. The explicit goals of the course are: To explore the discipline of architecture; To promote visual thinking and representational skills; To develop analytic design thinking skills; To learn some of the conventions of architectural representation; To enhance cultural awareness of architecture and design.

Students learn about careers in architecture, landscape architecture and urban planning. Architecture faculty teach basic design principles that students use to complete their own design project in a design studio environment.

YS41	Michael Abrams	Seats (Total: 20)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:30am - 4:30pm	ARC 1103	
	This section is part of Terp Young Scholars. Enrollment by permission only.		

ARCH200 **Design Media and Representation I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program.

Study of architectural representation in physical and digital design media. Examine visual literacy and visual communications through applied drawing, modeling and visual making to explore the role of design media and representation in design and design thinking.

0101	Michael Abrams	Seats (Total: 20)	
	Meets May 28, 2019 - July 5, 2019		
	TuTh 11:00am - 12:00pm	ARC 1105	
	TuTh 12:00pm - 2:40pm	ARC 1105	Lab

ARCH386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Restriction: Must have learning proposal approved by faculty sponsor and student's internship sponsor; and sophomore standing or higher; and permission of ARCH-Architecture Program.

Learning experience tied to internship of specified duration with targeted learning outcomes.

I101	Michael Brick	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ARCH408 **Special Topics Architecture Design Studio**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Design Studio course to examine topical problems in architecture and urban design.

0101	Michael Ezban	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 1:00pm - 6:00pm	Location: TBA

ARCH408R **Special Topics Architecture Design Studio**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Design Studio course to examine topical problems in architecture and urban design.

Contact department for information to register for this course.

ARCH428G **Selected Topics in Architectural History; Greek and Roman Cities of Southern Turkey**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428M **Selected Topics in Architectural History; The Architecture of Ancient Greece**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428P **Selected Topics in Architectural History; Domestic Architecture in Pompeii**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428Q **Selected Topics in Architectural History; Italy: Archaeological Investigations in the Vesuvian Region**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428V **Selected Topics in Architectural History; In the Shadow of Vesuvius: Architectural Recording for Archaeology: Italy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428X **Selected Topics in Architectural History; The Smithsonian**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

0101	Cynthia Field	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	TuWThF 10:00am - 12:15pm	Location: TBA
	TuWThF 1:00pm - 3:00pm	Location: TBA

ARCH428Y **Selected Topics in Architectural History; Archaeological Investigations in Roman Turkey**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH448V **Selected Topics in Visual Studies in Architecture; Italy: Architecture, Urbanism and Landscape**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Visual Studies in Architecture

SAIR	Brian Kelly	Seats (Total: 0)
	Meets May 31, 2019 - July 7, 2019	
	Contact instructor or department for details.	

ARCH478F **Selected Topics in Architecture; Scandanavia Craft and Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478K **Selected Topics in Architecture; Scandinavia: Culture and Place**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478P **Selected Topics in Architecture; Urban Redevelopment Studio**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478R **Selected Topics in Architecture; Architectural Drawings II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478V **Selected Topics in Architecture; Italy: Architecture, Urbanism and Landscape**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH483 **Field Archaeology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARCH-Architecture Program.

Participation in field archaeology with an excavation officially recognized by proper authorities of local government.

Contact department for information to register for this course.

ARCH608 **Advance Special Topics Design Studio**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Topical architectural design studio with concentration on advanced theoretical, conceptual, technological, cultural or professional issue.

0101	Michael Ezban	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 1:00pm - 6:00pm	Location: TBA

ARCH608R **Advance Special Topics Design Studio**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Topical architectural design studio with concentration on advanced theoretical, conceptual, technological, cultural or professional issue.

Contact department for information to register for this course.

ARCH628G **Selected Topics in Architectural History; Greek and Roman Cities of Southern Turkey**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628M **Selected Topics in Architectural History; The Architecture of Ancient Greece**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628P **Selected Topics in Architectural History; Domestic Architecture in Pompeii**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628Q **Selected Topics in Architectural History; Italy: Archaeological Investigations in the Vesuvian Region**

Credits: 1 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628V **Selected Topics in Architectural History; In the Shadow of Vesuvius: Architectural Recording for Archaeology: Italy**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628X **Selected Topics in Architectural History; The Smithsonian**

Credits: 1 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

0101	Cynthia Field	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	TuWThF 10:00am - 12:15pm	Location: TBA
	TuWThF 1:00pm - 3:00pm	Location: TBA

ARCH628Y **Selected Topics in Architectural History; Archaeological Investigations in Roman Turkey**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH678F **Advanced Selected Topics in Architecture; Scandanavia: Craft and Culture**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678K **Advanced Selected Topics in Architecture; Scandinavia: Culture and Place**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678P **Advanced Selected Topics in Architecture; Urban Redevelopment Studio**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678R **Advanced Selected Topics in Architecture; Drawing II: Architectural Representation**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678V **Advanced Selected Topics in Architecture; Italy: Architecture, Urbanism and Landscape**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH679 **Advanced Independent Studies in Architecture**

Credits: 1-4 Grading Method: Regular, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

I201	Ming Hu	Seats (Total: 1)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ARCH688A **Advanced Selected Topics in Architectural Technologies; Carbon Neutral Development through Net Zero**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural Technologies.

0101	Ming Hu	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	MW 6:00pm - 9:30pm	ESJ 2309

AREC Agricultural and Resource Economics Summer 2019

AREC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department. Restriction: Junior standing or higher.

0101	Robert Chambers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0112	Howard Leathers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0115	Lars Olson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0119	Dale Johnson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0123	James Hanson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0212	Howard Leathers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0215	Lars Olson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0223	James Hanson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

AREC399 **Special Problems**

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Concentrated reading and study in some phase of a problem in agricultural and/or natural resource economics.

0101	Robert Chambers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0112	Howard Leathers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0212	Howard Leathers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

AREC699 **Special Problems in Agricultural and Resource Economics**

Credits: 1-2 Grading Method: Regular, Audit

Intensive study and analysis of specific problems in the field of agricultural and resource economics, providing in-depth information in areas of special interest to the student.

0101	Robert Chambers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0111	Richard Just **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0112	Howard Leathers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0123	James Hanson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0126	Kenneth Leonard **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0151	Pamela Jakiela **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0152	Sebastien Houde **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0154	Jorge Holzer Bilbao **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0156	Snaebjorn Gunnsteinsson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0157	Mary Zaki **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0158	Stephen Salant **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)

0161	Joshua Linn **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0211	Richard Just **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0212	Howard Leathers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0223	James Hanson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0226	Kenneth Leonard **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0230	David Newburn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0251	Pamela Jakiela **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0252	Sebastien Houde **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0256	Snaebjorn Gunnsteinsson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0257	Mary Zaki **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0258	Stephen Salant **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

0261	Joshua Linn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

AREC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

0101	Robert Chambers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0111	Richard Just **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0112	Howard Leathers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0123	James Hanson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0151	Pamela Jakiela **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0152	Sebastien Houde **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0154	Jorge Holzer Bilbao **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0156	Snaebjorn Gunnsteinsson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0159	Neslihan Uler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)

0162	Erich Battistin **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0211	Richard Just **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0212	Howard Leathers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0223	James Hanson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0226	Kenneth Leonard **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0230	David Newburn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0251	Pamela Jakiela **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0252	Sebastien Houde **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0254	Jorge Holzer Bilbao **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0256	Snaebjorn Gunnsteinsson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0259	Neslihan Uler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

AREC898 Pre-Candidacy Research

(Perm req) Credits: 1-8 Grading Method: Regular, Sat-Fail

0104	Robert Chambers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0105	Richard Just **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 1)
0112	Howard Leathers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 1)
0130	David Newburn **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0135	Erik Lichtenberg **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 1)
0137	Anna Alberini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0138	Kenneth Leonard **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0140	Lori Lynch **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0143	Lars Olson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0145	Maureen Cropper **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)

0148	James Hanson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0150	Roberton Williams **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0151	Pamela Jakiela **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0152	Sebastien Houde **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0154	Jorge Holzer Bilbao **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0156	Snaebjorn Gunnsteinsson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0157	Mary Zaki **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0158	Stephen Salant **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)

0161	Joshua Linn **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0204	Robert Chambers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0205	Richard Just **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)
0212	Howard Leathers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)
0230	David Newburn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0235	Erik Lichtenberg **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0237	Anna Alberini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)
0238	Kenneth Leonard **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)
0240	Lori Lynch **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)

0243	Lars Olson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)
0245	Maureen Cropper **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)
0248	James Hanson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0250	Roberton Williams **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0251	Pamela Jakiela **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0252	Sebastien Houde **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0256	Snaebjorn Gunnsteinsson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0257	Mary Zaki **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0258	Stephen Salant **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0259	Neslihan Uler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

AREC899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Regular

0101	Robert Chambers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0111	Richard Just **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0112	Howard Leathers **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)

0115	Lars Olson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0123	James Hanson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0139	Maureen Cropper **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0140	Peter Cramton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0151	Pamela Jakiela **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0152	Sebastien Houde **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0154	Jorge Holzer Bilbao **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0156	Snaebjorn Gunnsteinsson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0157	Mary Zaki **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0158	Stephen Salant **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

0211	Richard Just **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0212	Howard Leathers **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0223	James Hanson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0226	Kenneth Leonard **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0230	David Newburn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0239	Maureen Cropper **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0240	Peter Cramton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0251	Pamela Jakiela **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0252	Sebastien Houde **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0256	Snaebjorn Gunnsteinsson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0257	Mary Zaki **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0258	Stephen Salant **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

0262	Erich Battistin	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ARHU Arts and Humanities Summer 2019

ARHU269V **Special Topics in Study Abroad II; Vienna and Budapest Field Study**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU286 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Minimum cumulative GPA of 2.5; and must be in a major or minor in ARHU - College of Arts and Humanities; and must have earned a minimum of 12 credits; and must not have earned more than 60 credits.

Designed for students who have completed fewer than 60 credits, students who are in their first semester at the University of Maryland, and/or students who wish to complete legislative internships, research-based internships, some start-up internships and some remote internships. All students must be enrolled in an ARHU major or minor and the internship must be in one of the academic fields covered within the College of Arts and Humanities. In addition to completing their required hours on site, students with fewer than 60 credits and students who are in their first semester at the University of Maryland will be required to attend three bi-weekly seminars at the beginning of the semester to help develop their para-professional goals and understandings.

0101	Paula Nadler	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	
I101	Paula Nadler	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	
I102	Paula Nadler	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

I201	Paula Nadler	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ARHU298J **Special Problems in Arts and Humanities; Creative Writing Workshop**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Students will read great poems and stories from across cultures and engage in related writing exercises. Students will share their own original writing in a supportive workshop setting, discover new approaches to revision.

YS41	Vivianne Salgado, Zein El-Amine	Seats (Total: 17)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 9:30am - 12:30pm	TWS 1105
	This section is part of Terp Young Scholars. Enrollment by permission only.	

ARHU338 **Undergraduate Teaching Assistantship in a Living Learning Program**

(Perm req)

Credits: 3 Grading Method: Regular

Offers exceptional students the opportunity to work closely with a faculty member and gain valuable experience. ARHU Living learning program UTAs also serve as peer mentors and program leaders. They assist with course planning, research, and student advising (as appropriate). We are also allowing for variable credit (1-3 cr hrs).

0201	Vivianne Salgado	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ARHU386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Junior standing or higher.

0101	Paula Nadler	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

I101	Paula Nadler **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
I102	Paula Nadler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

ARHU458 **Graduate School Preparation**

Credits: 1 Grading Method: Regular, Pass-Fail

Designed for Juniors and Seniors who are interested in applying to graduate school. Topics include skills needed for the graduate school search and application process, evaluation and reflection of application materials, preparation for GRE exam, and exploration into career options after graduate school. Focus on the Humanities fields.

Designed for Juniors and Seniors who are interested in applying to graduate school. Topics include skills needed for the graduate school search and application process, evaluation and reflection of application materials, preparation for GRE exam, and exploration into career options after graduate school. Focus on the Humanities fields.

WB21	Amanda Bachert **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

ARHU486 **Internship Practicum in Arts and Humanities**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Have completed previous internship at U of MD. Restriction: Must be in a major in ARHU-College of Arts & Humanities; and permission of ARHU-College of Arts & Humanities; and minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits; and completed 12 credits at U of MD.

An internship intended for students who have already completed an internship for credit. ARHU486 must be a different experience from the internship students have already taken for credit. Generally students intern with a different company, but they may continue working for the same company if the job is significantly different. See ARHU internship coordinator for details.

0101	Paula Nadler **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I101	Paula Nadler **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
I102	Paula Nadler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

ARHU489 **Advanced Internship Practicum in ARHU**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Designed for students who have already completed at least 2 upper level internship courses for academic credit. It is an advanced practicum to assist students in continuing to develop and hone their professional writing, presentation and analytical skills.

0101	Paula Nadler **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I101	Paula Nadler **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I102	Paula Nadler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

ARTH169A **Special Topics in Study Abroad I; Roman Archeology on-site**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH169I **Special Topics in Study Abroad I; Art of Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH201 **Art and Society in the West from the Renaissance to the Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU, DVUP

Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.

WB11	Abigail Upshaw **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB21	Melanie Nguyen **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

ARTH269P **Special Topics in Study Abroad II; From Medieval to Contemporary: Exploring the Great Art and Architecture of Prague**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269R **Special Topics in Study Abroad II; Art of Renaissance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH290 **Art and Society in Asia**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

A comparative, interrelational study of the different visual arts and material cultures produced by societies in Asia. An examination of the historical traditions and forms in political, social, and religious contexts.

WB11	Bart Pushaw	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

ARTH323 **Fifteenth-Century Italian Renaissance Art**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Painting, sculpture, architecture, and the decorative arts of the fifteenth century in Italy.

Painting, sculpture, architecture, and the decorative arts of the fifteenth century in Italy.

WB21	Caroline Paganussi	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ARTH359B **Film as Art; Films of Quentin Tarnatino**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

WB11	Greg Metcalf	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

ARTH369J **Special Topics in Study Abroad III; Survey of Italian Renaissance and Mannerist Art 1300-1580**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369T **Special Topics in Study Abroad III; Archaeology in Central Italy: The Etruscan and Roman Heritage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-Art History & Archaeology department. Restriction: Junior standing or higher.

Supervised internship experience in diverse areas of art historical, archaeological, and museological work.

0101	Abigail McEwen **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)
I101	Abigail McEwen **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 30)

ARTH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ARTT Art Studio Summer 2019

ARTT110 **Elements of Drawing I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Students must pay a $40.00 studio lab fee.

0101	Clayton Dunklin **Meets May 28, 2019 - July 5, 2019** MTuWTh 9:00am - 12:15pm	Seats (Total: 12) ASY 2317	 Lab
0201	Matthew Robertson **Meets July 8, 2019 - August 16, 2019** MTuWTh 9:00am - 12:15pm	Seats (Total: 10) ASY 2317	 Lab

ARTT150 **Introduction to Art Theory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Fundamental concepts of global, philosophic, and critical art theory examined through various historic and contemporary texts, and the analysis of works of art.

0301	Richard Klank **Meets May 28, 2019 - June 14, 2019** MTuWTh 6:00pm - 9:25pm	Seats (Total: 20) ASY 3203

ARTT169P **Special Topics in Study Abroad I; Studio Art I: Drawing and Painting Italy**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT200 **Three-Dimensional Art Fundamentals**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110.

Fundamental concepts of three-dimensional form and space examined through the manipulation and organization of various materials.

0101	Monroe Isenberg **Meets May 28, 2019 - July 5, 2019** MTuWTh 12:00pm - 3:15pm	Seats (Total: 16) ASY 1311

ARTT210 **Elements of Drawing II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT110.

Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.

Students must pay a $40.00 studio lab fee.

0101	Clayton Dunklin **Meets May 28, 2019 - July 5, 2019** MTuWTh 9:00am - 12:15pm	Seats (Total: 8) ASY 2321	Lab
0201	Matthew Robertson **Meets July 8, 2019 - August 16, 2019** MTuWTh 9:00am - 12:15pm	Seats (Total: 8) ASY 2317	Lab

ARTT255 **Introduction to Digital Art and Design Processes**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110. Credit only granted for: ARTT255 or ARTT354. Formerly: ARTT354.

Introduction to basic software and principles of digital imaging, and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.

Students must pay a $40.00 studio lab fee.

WB21	Shannon Collis **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs *Online introduction to basic software and principles of digital imaging and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.*	Seats (Total: 20) ONLINE	

ARTT269I **Special Topics in Study Abroad II; Studio Art II: Drawing and Painting Italy**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT333 **Elements of Sculpture: Wood and Mixed Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

Students must pay a $40.00 studio lab fee.

0101	Monroe Isenberg	Seats (Total: 12)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWTh 3:15pm - 6:30pm	ASY 1311	Lab

ARTT343 **Elements of Printmaking: Screen Printing**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

Students must pay a $40.00 studio lab fee.

0201	Matthew McLaughlin	Seats (Total: 8)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWTh 9:00am - 12:15pm	ASY 1317	Lab
0301	Lauren Koch	Seats (Total: 10)	
	Meets May 28, 2019 - June 14, 2019		
	MTuWTh 10:00am - 4:15pm	ASY 1317	

ARTT353 **Elements of Photography**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Introduction to black-and-white photography. Basic technical and aesthetic vocabulary, camera mechanics and darkroom techniques. Introduction to the photographic message and meaning in both fine art and design concept.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT369A **Special Topics in Study Abroad III; Focus: Introduction to Digital Photography as Fine Art**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT369D **Special Topics in Study Abroad III; Design: London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT369L **Special Topics in Study Abroad III; Writing with Light**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT369T **Special Topics in Study Abroad III; Travel Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-Art department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTT409L **Study Abroad Special Topics IV; Design, Art and Culture: London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT418 **Advanced Drawing Studio**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Students must pay a $40.00 studio lab fee.

0101	Clayton Dunklin **Meets May 28, 2019 - July 5, 2019** MTuWTh 9:00am - 12:15pm	Seats (Total: 4) ASY 2321	Lab
0201	Matthew Robertson **Meets July 8, 2019 - August 16, 2019** MTuWTh 9:00am - 12:15pm	Seats (Total: 6) ASY 2317	Lab

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ARTT438D **Advanced Sculpture Studio; Wood and Mixed Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Students must pay a $40.00 studio lab fee.

0101	Monroe Isenberg **Meets May 28, 2019 - July 5, 2019** MTuWTh 3:15pm - 6:30pm	Seats (Total: 7) ASY 1311	Lab

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ARTT448E **Advanced Printmaking Studio; Advanced Screen Printing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT343. Students must pay a $40.00 studio lab fee. Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

0201	Matthew McLaughlin **Meets July 8, 2019 - August 16, 2019** MTuWTh 9:00am - 12:15pm	Seats (Total: 4) ASY 1317	Lab
0301	Lauren Koch **Meets May 28, 2019 - June 14, 2019** MTuWTh 10:00am - 4:15pm	Seats (Total: 10) ASY 1317	

ARTT460 **Seminar in Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing.

Exploration of relationship between content and processes of art in a contemporary multi-cultural context.

Contact department for information to register for this course.

ARTT468B **Seminar on the Interrelationship Between Art and Art Theory; Issues in Contemporary Art**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The relationship between a student's work and the theoretical context of contemporary art.

0301	Richard Klank **Meets May 28, 2019 - June 14, 2019** MTuWTh 6:00pm - 9:25pm	Seats (Total: 5) ASY 3203	

ARTT489D **Advanced Special Topics in Art; Magazine Design, Layout and Production**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

Prerequisites: ARTT210 and ARTT255 or permission of the department. Exploration of periodical publications with hands-on application of design and editorial techniques, culminating in a complete magazine. Working knowledge of Adobe InDesign recommended. Students must pay a $40.00 studio lab fee.

0201	Anne Kerns	Seats (Total: 14)
	Meets July 8, 2019 - August 16, 2019	
	MTuWTh 12:30pm - 3:45pm	ASY 2322

ARTT498A **Directed Studies in Studio Art**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT628 **Painting**

Credits: 3 Grading Method: Regular, Audit

Graduate painting for advanced special students.

Students must pay a $60.00 studio lab fee.

0301	Richard Klank	Seats (Total: 5)	
	Meets May 28, 2019 - June 14, 2019		
	MTuWTh 11:30am - 5:45pm	ASY 2315	Lab

ARTT698W **Directed Graduate Studies in Studio Art; Water Color and Water Based Media**

Credits: 3 Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

0301	Richard Klank	Seats (Total: 5)	
	Meets May 28, 2019 - June 14, 2019		
	MTuWTh 11:30am - 5:45pm	ASY 2315	Lab

ASTR Astronomy Summer 2019

ASTR100 **Introduction to Astronomy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Credit only granted for: ASTR100, ASTR101, or ASTR120.

An elementary course in descriptive astronomy, especially appropriate for non-science students. Topics include the Sun, Moon, planets, stars, and nebulae, galaxies, and evolution of the Universe.

0201	James Hunt	Seats (Total: 20)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 9:30am - 10:50am	ATL 2400	

ASTR101 **General Astronomy**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Credit only granted for: ASTR100, ASTR101, or ASTR120.

Descriptive astronomy, appropriate for non-science majors. Sun, moon, planets, stars, nebulae, galaxies and evolution. Laboratory exercises include use of photographic material, computer simulations, and standard laboratory equipment.

Students must pay a $50.00 Laboratory Materials fee.

0201	James Hunt	Seats (Total: 20)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 9:30am - 10:50am	ATL 2400	
	TuTh 11:00am - 1:00pm	ATL 0254	Lab

ASTR699 **Special Problems in Advanced Astronomy**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ASTR899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BCHM Biochemistry Summer 2019

BCHM461 **Biochemistry I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461 or BCHM463.

First semester of a comprehensive introduction to modern biochemistry. Structure, chemical properties, and function of proteins and enzymes, carbohydrates, lipids, and nucleic acids. Basic enzyme kinetics and catalytic mechanisms.

0101	Christiana Guest	Seats (Total: 100)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 9:30am - 10:50am	CHM 1407

BCHM462 Biochemistry II

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BCHM461. Credit only granted for: BCHM462 or BCHM463.

A continuation of BCHM 461. Metabolic pathways and metabolic regulation energy transduction in biological systems, enzyme catalytic mechanisms.

0201	Douglas Julin	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 9:30am - 10:50am	PHY 1201

BCHM463 Biochemistry of Physiology

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461, BCHM462 or BCHM463.

A one-semester introduction to general biochemistry. A study of protein structure, enzyme catalysis, metabolism, and metabolic regulation with respect to their relationship to physiology.

0101	Amanda Schech	Seats (Total: 55)
	Meets May 28, 2019 - July 19, 2019	
	TuW 9:15am - 11:25am	KEB 1200
	F 9:30am - 10:25am	KEB 1200

BCHM699 Special Problems in Biochemistry

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment. Restricted to students in the non-thesis M.S. option.

Contact department for information to register for this course.

BCHM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

BCHM898 **Pre-Candidacy Research**

Credits: 1 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BCHM899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BIOE Bioengineering Summer 2019

BIOE120 **Biology for Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH140. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Introduction to the functions and interactions of biological systems from a quantitative perspective. Introduction to the modern experimental techniques and methods of data analysis. Roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

0101	Angela Jones	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MWF 1:00pm - 3:40pm	AJC 2132

BIOE121 **Biology for Engineers Laboratory**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BIOE120. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Bioengineering encompasses numerous sub-disciplines that apply engineering principles to analyze biological systems and that utilize engineering design strategies to solve biological and biomedical problems. This course is aimed at providing students with the opportunity to learn how biology and engineering can synergistically contribute to our understanding of such problems, and to gain hands-on experience in basic techniques relevant to Bioengineering.

0101	Angela Jones	Seats (Total: 12)	
	Meets May 28, 2019 - July 5, 2019		
	MF 9:00am - 9:50am	AJC 1121	
	MF 10:00am - 12:00pm	AJC 1121	

BIOE160 **Biopharmaceutical Production**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in the Young Scholars Program.

Focuses on the basics of recombinant DNA technology as applied to biopharmaceutical manufacturing in a classroom setting. Students will work through a "production campaign" including all key steps of manufacturing a protein product.

YS41	Ben Woodard, Kevin Knapstein	Seats (Total: 12)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:00am - 9:50am	CHE 2118	
	MTuWThF 10:00am - 12:50pm	CHE 1203	Lab
	This section is part of Terp Young Scholars. Enrollment by permission only.		
YS42	Ben Woodard, Kevin Knapstein	Seats (Total: 9)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:00am - 9:50am	CHE 2118	
	MTuWThF 2:00pm - 4:50pm	CHE 1203	Lab
	This section is part of Terp Young Scholars. Enrollment by permission only.		

BIOE221 **Academic and Career Planning**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: BIOE120 and BIOE121. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Provides practical tools to help Bioengineering majors think critically about their goals and career paths. Guides Bioengineering students through accessing useful resources both on- and off-campus.

WB21	Abby Shantzis, Bill Churma	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BIOE241 **Biocomputational Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Application of computer technology to biological and natural resource systems considering engineering aspects. Designed to help students in the use of computer technology for problem solving. The course will cover 4-5 software packages important for later use by the student.

0201	Lan Ma	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	MWF 12:00pm - 2:30pm	KEB 2107

BIOE331 **Biofluids**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241; and must have completed or be concurrently enrolled in BIOE232. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE331, ENCE305, or ENME331.

Principles and applications of fluid mechanics with a focus on bioengineering topics. Content includes conservation of mass, momentum, and energy, as well as the application of these fundamental relations to hydrostatics, control volume analysis, internal and external flow, and boundary layers. Applications to biological and bioengineering problems such as tissue engineering, bioprocessing, imaging, and drug delivery.

0101	Jose Aranda-Espinoza	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	TuWTh 9:30am - 12:00pm	AJC 2132

BIOE399 **Independent Study in Bioengineering**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Contact department for information to register for this course.

BIOE399H **Independent Study in Bioengineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Contact department for information to register for this course.

BIOE431 **Fundamentals of Biosensor Techniques, Instrumentation, and Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM135, PHYS260, PHYS261, BSCI330, BIOE120, BIOE121, BIOE241, and MATH246; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

A thorough review of fundamental concepts of biosensing systems, principles of common detection methods, and modern applications of biosensors. Primarily literature driven. Students will obtain a detailed understanding of cutting-edge biosensing techniques, the instrumentation used, and the application space. Students also will develop skills in using current literature as a source of knowledge.

WB21	Ian White	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BIOE489C **Special Topics in Bioengineering; Mechanical Design of Medical Devices**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prerequisite: BIOE120, BIOE121, BIOE241, BIOE437. Restriction: Permission of department.

0101	Frank Modica	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 6:00pm - 9:15pm	KEB 2107

BIOE658C **Special Topics in Bioengineering (M.Eng.); Mechanical Design of Medical Devices**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Research Oriented Individual Instruction course.

For Master of Engineering students only or with permission of department.

0101	Frank Modica	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 6:00pm - 9:15pm	KEB 2107

BIOE658N **Special Topics in Bioengineering (M.Eng.); Advanced Experiences in Bioengineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Research Oriented Individual Instruction course.

For Master of Engineering students only or with permission of department.

0201	Angela Jones	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BIOE658W **Special Topics in Bioengineering (M.Eng.); Biosensor Techniques, Instrumentation, and Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Research Oriented Individual Instruction course.

For Master of Engineering students only or with permission of department. Credit will only be granted for BIOE658W, BIOE631, or BIOE431. A thorough review of fundamental concepts of biosensing systems, principles of common detection methods, and modern applications of biosensors. Primarily literature driven. Students will obtain a detailed understanding of cutting-edge biosensing techniques, the instrumentation used, and the application space. Students also will develop skills in using current literature as a source of knowledge.

BI01	Ian White	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BIOE689 **Special Topics in Bioengineering**

Credits: 1-3 Grading Method: Regular

Research Oriented Individual Instruction course.

Contact department for information to register for this course.

BIOE799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOE899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL Biology Summer 2019

BIOL609 **Special Problems in Biology**

Credits: 1-6 Grading Method: Regular

One seminar per week for each subject selected: A-Cell Biology; B-Developmental Biology; C-Estuarine and Marine Biology; D-Genetics; E-Parasitology; F-Physiology; G-Systematics and Evolutionary Biology; I-Behavior; J-General; K-Endocrinology; L-Ecology.

Contact department for information to register for this course.

BIOL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0212	Ricardo Araneda **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0223	Carlos Machado **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

BIOM Biometrics Summer 2019

BIOM688A **Topics in Biometrics; Consulting Experience in Biometrics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest in various areas of biometrics. Credit assigned will depend on lecture and/or laboratory time scheduled and organization of the course.

0201	Jiuzhou Song **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)

BIOM698 **Special Problems in Biometrics**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Individual study of a particular topic in biostatistics or biomathematics.

Contact department for information to register for this course.

BISI Biological Sciences Summer 2019

BISI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BISI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0278	Nathan Swenson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 3)
0295	Philip Johnson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 3)

BISI899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0202	Kan Cao **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0204	Patrick Kanold **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0208	William Lamp **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0213	Antony Jose **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0214	Sridhar Hannenhalli **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0218	Shunyuan Xiao **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0220	Mihai Pop **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0228	Thomas Kocher **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)
0240	Sougata Roy **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0254	Jeffrey DeStefano **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0271	Jonathan Dinman **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0278	Nathan Swenson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0287	Gerald Wilkinson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)
0289	Xiaoping Zhu **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0291	Wade Winkler	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BMGT Business and Management Summer 2019

BMGT099 **Internship Seminar**

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

CP25	Angela Vaughn	Seats (Total: 100)
	Meets July 29, 2019 - August 18, 2019	
	Th 6:25pm - 10:00pm	Location: TBA

BMGT110 **Introduction to the Business Value Chain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE

Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.

All course material is delivered online. In-class comprehensive final exam scheduled for Friday, August 23, 2019 at 6pm in Van Munching Hall.

WB20	Hugh Turner	Seats (Total: 45)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BMGT220 **Principles of Accounting I**

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

0101	Viktoriya Zotova	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 11:00am - 12:45pm	VMH 1330

BMGT230 **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.

0101	Ziwei Cao	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 2:00pm - 5:10pm	VMH 1335
0201	Ai Ren	Seats (Total: 35)
	Meets July 8, 2019 - August 16, 2019	
	TuTh 2:00pm - 5:10pm	VMH 1303

BMGT289I **Why Good Managers Make Bad Decisions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: DSSP, SCIS

WB41	Jeff Miller	Seats (Total: 40)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

BMGT310 **Intermediate Accounting I**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Comprehensive analysis of financial accounting topics related to financial statement preparation and external reporting.

0101	Jin Choi	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 11:00am - 12:45pm	VMH 1335

BMGT326 Accounting Systems

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT201 or BMGT301).

A study of accounting systems and computer and communications technology.

0101	Fikret Polat	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 11:00am - 12:45pm	VMH 1336

BMGT340 Business Finance

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Portions of this course will be offered online.

0101	Michael Padhi	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 2:00pm - 5:10pm	VMH 1330

BMGT350 Marketing Principles and Organization

Credits: 3 Grading Method: Regular

Recommended: ECON200.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

0201	Roxanne Lefkoff	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	TuTh 6:00pm - 9:10pm	VMH 1303

BMGT357 **Retailing and Marketing Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Permission of BMGT-Robert H. Smith School of Business; and must be in a major in BMGT-Robert H. Smith School of Business.

Supervised work experience with a firm engaged in marketing goods or services. Students apply concepts learned in marketing classes and analyze the firm's organizational structure, environment and marketing strategy.

Click here for more course information.

I201	Mary Harms	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BMGT364 **Managing People and Organizations**

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

0101	Rujiao Cao	Seats (Total: 45)
	Meets May 28, 2019 - July 5, 2019	
	MW 2:00pm - 5:45pm	VMH 1330

BMGT372 **Introduction to Logistics and Supply Chain Management**

Credits: 3 Grading Method: Regular

Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.

WB21	Hugh Turner	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	All course material is delivered online. In-class comprehensive final exam scheduled for Friday, August 23, 2019 at 6pm in Van Munching Hall.	

BMGT373 **Supply Chain Management Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: BMGT370 or BMGT372. Restriction: Permission of BMGT-Robert H. Smith School of Business.

Involves supervised work experience in supply chain management, logistics and/or transportation. Students will be expected to relate course material to work experience in an analysis of a firm's operations.

Click here for more course information.

I201	Xinyi Ren	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BMGT380 **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

0201	Jon Crocker	Seats (Total: 45)
	Meets July 8, 2019 - August 16, 2019	
	MW 6:40pm - 9:50pm	VMH 1303

BMGT386 **General Business Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business; and must be in a major in BMGT-Robert H. Smith School of Business.

Supervised work experience in business. Students will be expected to relate course material to work experience in an analysis of a firm's operations.

Click here for more information.

I201	Laharish Guntuka	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BMGT398 **Individual Study in Business and Management**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

BMGT398G **Individual Study in Business and Management; Social Entrepreneurship Internship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

BMGT495 **Strategic Management**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.

0101	Audra Wormald	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	MW 6:00pm - 9:45pm	VMH 1335

BMGT828 **Independent Study in Business and Management**

(Perm req)

Credits: 1-9 Grading Method: Regular

By permission only of the Graduate Director.

Contact department for information to register for this course.

BMGT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BMGT899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact Graduate Program Director to make arrangements.

Contact department for information to register for this course.

BSCI Biological Sciences Program Summer 2019

BSCI135 **Amazing Green: Plants that Transformed the World**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL, SCIS

An interactive way to learn about plants and science, focusing on how plants have changed human history, the biology of their growth, and the science behind their use.

0101	Edgar Moctezuma	Seats (Total: 24)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 11:00am - 12:20pm	HJP 3237	
	TuTh 1:00pm - 3:00pm	HJP 3237	Lab

BSCI170 **Principles of Molecular & Cellular Biology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with BSCI171), DSNS

Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI105 or BSCI170. Formerly: BSCI105.

Basic principles of biology with special emphasis on cellular and molecular biology.

WB11	Michael Keller	Seats (Total: 40)	
	Meets May 28, 2019 - July 5, 2019		
	Class time/details on ELMs	ONLINE	

BSCI201 **Human Anatomy and Physiology I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: BSCI170 and BSCI171; or BSCI105; or students who have taken courses with comparable content may contact the department.

Anatomy and physiology of the skeletal, muscular, neural, endocrine, an sensory systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Students must pay a $40.00 Laboratory Materials fee. (Sponsoring Department: BIOL.)

0101	Justicia Opoku-Edusei, Caitlin Fox **Meets May 28, 2019 - July 5, 2019** MTuWTh 11:00am - 12:40pm TuWTh 8:00am - 10:50am	Seats (Total: 24) BPS 1243 BPS 0205	 Lab
0103	Justicia Opoku-Edusei, Caitlin Fox **Meets May 28, 2019 - July 5, 2019** MTuWTh 11:00am - 12:40pm TuWTh 1:00pm - 3:50pm	Seats (Total: 24) BPS 1243 BPS 0205	 Lab

BSCI202 **Human Anatomy and Physiology II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI201; or permission of CMNS-Biology department.

Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Students must pay a $40.00 Laboratory Materials fee. Sponsoring Department: BIOL.

0201	Tammatha O'Brien, Caitlin Fox **Meets July 8, 2019 - August 16, 2019** MTuWTh 11:00am - 12:40pm TuWTh 8:00am - 10:50am	Seats (Total: 24) PLS 1140 BPS 0201	 Lab
0203	Tammatha O'Brien, Caitlin Fox **Meets July 8, 2019 - August 16, 2019** MTuWTh 11:00am - 12:40pm TuWTh 1:00pm - 3:50pm	Seats (Total: 24) PLS 1140 BPS 0201	 Lab

BSCI222 **Principles of Genetics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or must have completed BSCI105 or (BSCI170 and BSCI171); and two semesters of chemistry.

Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.

0101	Kimberly Paczolt	Seats (Total: 40)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 1:00pm - 2:30pm	ESJ 1309	
	TuThF 3:00pm - 5:00pm	ESJ 1309	Discussion

BSCI223 **General Microbiology**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL, SCIS

Prerequisite: BSCI170 and BSCI171; or BSCI105.

Fundamental concepts in morphology, physiology, genetics, immunology, ecology, and pathogenic microbiology. Applications of microbiology to medicine, the food industry and biotechnology.

Students must pay a $40.00 laboratory materials fee.

0101	Erin Tran	Seats (Total: 14)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 10:30am - 11:20am	MCB 1207	
	MTuWThF 12:00pm - 2:00pm	MCB 1201	Lab
0102	Erin Tran	Seats (Total: 13)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 10:30am - 11:20am	MCB 1207	
	MTuWThF 12:00pm - 2:00pm	MCB 1205	Lab
0103	Erin Tran	Seats (Total: 13)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 10:30am - 11:20am	MCB 1207	
	MTuWThF 12:00pm - 2:00pm	MCB 1206	Lab

BSCI279 **Supplemental Study; Supplemental Study in Biology**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Department: BIOL.)

Contact department for information to register for this course.

BSCI279E **Supplemental Study; Environmental Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

This Course will explore adaptation and natural selection; organismic, population, community, and ecosystem ecology; and human impact on natural systems

YS41	Virginia Weeks	Seats (Total: 14)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:30am - 12:00pm	PLS 1117	
	TuTh 2:00pm - 4:30pm	HJP 3237	Discussion
	This section is part of Terp Young Scholars. Enrollment by permission only.		

BSCI289 **Off-Campus Internship**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Elective credit for formally established off-campus research internship. Permission of Director of Outreach required.

I101	Katerina Thompson	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
I201	Katerina Thompson	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BSCI338I **Special Topics in Biology; Medical Biotechnology & Drug Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338M **Special Topics in Biology; Human Health and Disease: A Clinical Approach**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338Z **Special Topics in Biology; Field Research**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Department: BIOL.)

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
SG10	Hadiya Woodham **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
SG20	Hadiya Woodham **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

BSCI339I **Selected Topics in Biology; Cellular Mechanisms of Aging and Disease**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: BSCI330. Students will explore the cellular mechanisms underlying aging and a variety of noninfectious diseases and disorders ranging from diabetes and obesity to Alzheimer's and various cancers. In addition to online lectures, students will read and discuss relevant primary and secondary literature in the area of cell biology and biomedicine. Assessments will include assignments/quizzes, discussion forums, and one or more wiki page/PowerPoint-based presentations covering topics relevant to aging and disease. Acceptable towards Biological Sciences Specialization Areas: PHNB, CEBG cell biology category, GENB cell biology/physiology category.

WB41	Hadiya Woodham **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 24) ONLINE

BSCI339N **Selected Topics in Biology; Natural History, Ecology and Geology of Australia**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Contact department for information to register for this course.

BSCI348J **Special Topics in Cell Biology and Molecular Genetics; Medical Microbiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Prerequisite: BSCI105 (grade of B or better) or BSCI223 or BSCI283. Credit only granted for BSCI424 or BSCI348J. Mechanisms of pathogenesis, detection, prevention and treatment of bacterial, viral and parasitic pathogens of humans.

WB11	Volker Briken **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 16) ONLINE
WB21	Volker Briken **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 12) ONLINE

BSCI348M **Special Topics in Cell Biology and Molecular Genetics; Epidemiology of Microbial Pathogens**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Acceptable towards Biological Sciences areas: MICB and GENB. Prerequisite: BSCI105. Study of infectious bacteria and viruses acting at the population level in humans and animals. Identification of causes and spread of infection.

WB31	Jeffrey Olimpo **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 31) ONLINE

BSCI348R **Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Microbiology Internship. Opportunity for students to perform research, relating to microbiology in an off-campus laboratory. Permission of Instructor required. 3 credits applicable to MICB specialization area.

I101	David Straney **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
I201	David Straney **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

BSCI379G **Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

Contact department for information to register for this course.

BSCI379M **Cell Biology and Molecular Genetics Department Research; Research in Microbiology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

Research carried out under guidance of faculty advisor. Student must make arrangements with a CBMG Departmental faculty member to do this research and register for this course. Permission Required.

Contact department for information to register for this course.

BSCI379P **Cell Biology and Molecular Genetics Department Research; Research in Plant Biology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

Research carried out under guidance of faculty advisor. Student must make arrangements with a CBMG Departmental faculty member to do this research and register for this course. Permission Required.

Contact department for information to register for this course.

BSCI389 **Entomology Department Research**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Credit to be determined by the department. Should be taken during the junior year. Investigations of assigned entomological problems. No more than 4 credit hours of BSCI389 may be applied to the 120 credit hours needed for the Bachelor's degree.

Contact department for information to register for this course.

BSCI399 **Biology Department Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

(Sponsoring Department: BIOL.)

0101	Reid Compton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 15)
0201	Reid Compton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

BSCI399H **Biology Department Honors Research**

(Perm req)

Credits: 1-2 Grading Method: Regular

A laboratory research problem; required each semester during honors participation and culminating in an honors thesis.

(Sponsoring Department: BIOL.)

Contact department for information to register for this course.

BSCI399L **Biology Department Research; Biology Lab Research**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

Any combination of 3 credits of BSCI399, BSCI399L, and BSCI399H can be used to satisfy the enrichment requirement in CEBG, ECEV, MICB, or PHNB or an upper-level elective in GENB. Students must have successfully completed at least one semester in a Biology department research lab before getting permission to take BSCI399L in the same lab. Students completing at least 4 credits of laboratory research including at least one semester taking BSCI399L may substitute this experience for one of the two upper-level laboratory courses required to complete any BSCI major.

0101	Reid Compton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 15)
0201	Reid Compton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

BSCI422 **Principles of Immunology**

Credits: 3

Grading Method: Regular

Prerequisite: BSCI223 and BSCI222. Recommended: BSCI330. Restriction: Junior standing or higher.

The immune system in health and disease. Presentation and analysis of the cellular and molecular processes that comprise the immune system.

0101	Kenneth Frauwirth **Meets May 28, 2019 - July 5, 2019** MTuWThF 1:00pm - 2:40pm	Seats (Total: 40) MCB 1207

BSCI433 **Biology of Cancer**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI330; or permission of CMNS-Biological Sciences UG Program.

Causes and consequences of neoplastic transformations at the biochemica and cellular levels.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: CEBG, GENB, and PHNB.

WB51	Beth Parent	Seats (Total: 30)	
	Meets June 17, 2019 - July 5, 2019		
	Class time/details on ELMs	ONLINE	

BSCI440 **Mammalian Physiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330; and (CHEM231 and CHEM232; or must have completed CHEM233). Or permission of CMNS-Biological Sciences UG Program.

A study of the cardiovascular, hemopoietic, gastrointestinal, renal and respiratory systems. Chemical and endocrine regulation of physiological functions in mammals. Course does not count as an upper level lab for BIOL majors (see BSCI441).

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: GENB and PHNB.

0101	Justicia Opoku-Edusei	Seats (Total: 50)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWTh 9:00am - 10:45am	BPS 1243	
	MTuWTh 11:00am - 12:45pm	BPS 0283	Discussion

BSCI447 **General Endocrinology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, CHEM241, and CHEM242.

Functions and dysfunctions of the endocrine system with special reference to mammals.

WB21	Tammatha O'Brien	Seats (Total: 50)	
	Meets July 8, 2019 - August 16, 2019		
	Class time/details on ELMs	ONLINE	

BSGC Global Communities Summer 2019

BSGC398A **BSGC Experiential Learning in Global Communities: Global Service**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Experiential learning is an integral element of the Global Communities program. Students will gain an understanding of social issues in marginalized communities, engage in service-learning, and develop an action plan for civic engagement in a diverse global society.

WB11	Natalie Vinski Ibrahim	Seats (Total: 25)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BSGC399 **Topical Investigations in Global Communities**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Variable from 1-3 credits and repeatable up to 6 if content varies.

WB11	Virginia Haufler	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BSOS Behavioral and Social Sciences Summer 2019

BSOS288I **Special Topics in Behavioral and Social Sciences; Social Science Internship Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

I101	Kathryn Hopps	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
I201	Kathryn Hopps	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BSOS288M **Special Topics in Behavioral and Social Sciences; MSEC Internship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

Contact department for information to register for this course.

BSOS355 **Social Sciences Internship Practicum**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must have earned a minimum of 60 credits; and minimum cumulative GPA of 2.5; and must have completed at least 1 semester at UMD. Credit only granted for: BSOS388I or BSOS355. Formerly: BSOS388I.

BSOS 355 is an internship course open to all majors. It will enable students to articulate and apply the scholarship from the discipline related to their specific internship placement into a real-work environment.

I101	Kathryn Hopps **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
I201	Kathryn Hopps **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

BSOS386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular

Contact department for information to register for this course.

BSOS388E **Behavioral and Social Sciences Special Topics; CIDCM Minor Practicum**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

0101	David Backer **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 3)

BSOS388Q **Behavioral and Social Sciences Special Topics; Cesar Directed Study**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSST Terrorism Studies Summer 2019

BSST338E **Special Topics in Terrorism Studies; Political Assassinations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSOC

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Students will examine political assassinations, their societal consequences, and the possible means for their prevention, from profiling assassins to protection of potential targets. Research on political assassinations has developed from many different disciplines and so we will be drawing on theory and research from across a range of different fields, including political science, criminology, psychology, sociology and economics. In each lecture we will review the scholarly issues associated with political assassinations, including how we can study them in a scientific way, and what we can learn from research on celebrity stalkers and the impact of conspiracy theories. Finally, we consider the practical, counter attack challenges faced by security and law enforcement.

WB11	Margaret Wilson	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

BSST338O **Special Topics in Terrorism Studies; School Shooters and Spree Killers**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

WB21	Michael Egnoto	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BSST338X **Special Topics in Terrorism Studies; Countering Violent Extremism and Deradicalization in International Contexts**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST358A **Special Topics in Study Abroad III; Community Resilience Internship Program**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

BSST372 **Terrorist Hostage Taking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Examines different forms of hostage taking, drawing on theory and research from across a range of different fields, including international relations, political science, criminology, psychology, sociology and economics. We will consider these events in terms of how they are similar, how they differ and what they are designed to achieve. This course provides insights into the complicated nature of terrorism via hostage taking in order to broaden student understanding of current events. This course also gives students practical experience in finding and coding data, and studying complex human behaviors.

WB21	Margaret Wilson	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BSST386 **Experiential Learning in Terrorism Studies**

(Perm req)

Credits: 1-5 Grading Method: Regular, Pass-Fail

This course will supplement student's experiential learning experience, or internship in the field of terrorism studies and homeland security with guided reflection on their experiences.

I101	Elizabeth Wasden	Seats (Total: 30)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BSST638A **Special Topics in Terrorism Studies; Political Assassinations**

Credits: 3

Grading Method: Regular,
Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

WB11	Margaret Wilson	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

BSST638B **Special Topics in Terrorism Studies; Terrorist Hostage Taking**

Credits: 3

Grading Method: Regular,
Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

WB21	Margaret Wilson	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

BSST638D **Special Topics in Terrorism Studies; Community Resilience Internsip Program**

Credits: 3

Grading Method: Regular,
Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST638F **Special Topics in Terrorism Studies; Terrorist Financing Analysis and Counterterrorist Finance**

Credits: 3

Grading Method: Regular,
Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

WB11	Jason Blazakis	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

BSST638V **Special Topics in Terrorism Studies; Countering Violent Extremism and Deradicalization in International Contexts**

Credits: 3 Grading Method: Regular, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BUAC Accounting and Information Assurance — Summer 2019

BUAC743 **Financial Statement Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. This involves understanding and using the information that financial statements are communicating to users.

DC21	Emre Carr	Seats (Total: 45)
	Meets June 27, 2019 - August 15, 2019	
	W 6:25pm - 10:00pm	DC C3

BUAC759 **Independent Study in Accounting and Information Assurance**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in accounting and information assurance.

Contact department for information to register for this course.

BUDT Decision and Information Technologies — Summer 2019

BUDT733 **Data Mining and Predictive Analytics**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Credit only granted for: BMGT733 or BUDT733. Formerly: BMGT733.

Data mining techniques and their use in business decision making. A hands-on course that provides an understanding of the key methods of data visualization, exploration, classification, prediction, time series forecasting, and clustering.

BA21	Gorkem Ozer **Meets June 27, 2019 - August 15, 2019** W 6:25pm - 10:00pm	Seats (Total: 45) BA 103
DC21	Gorkem Ozer **Meets June 27, 2019 - August 15, 2019** Tu 6:25pm - 10:00pm	Seats (Total: 45) DC C3
GS21	Gorkem Ozer **Meets June 27, 2019 - August 15, 2019** M 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2032

BUDT758D **Special Topics in Decision, Operations and Information Technologies; Data Models and Decisions**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

Contact department for information to register for this course.

BUDT758P **Special Topics in Decision, Operations and Information Technologies; Decision Analytics**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

Contact department for information to register for this course.

BUDT758T **Special Topics in Decision, Operations and Information Technologies; Data Mining and Predictive Analytics**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

Contact department for information to register for this course.

BUDT758Y **Special Topics in Decision, Operations and Information Technologies; Database Management Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

Contact department for information to register for this course.

BUDT759 **Independent Study in Decision and Information Technologies**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in decision and information technologies.

Contact department for information to register for this course.

BUFN Finance Summer 2019

BUFN754 **Corporate Risk Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN716 or BUFN754.

Surveys the theory and practice of financial risk identification, measurement, and mitigation at financial and non-financial firms. Topics will include hedging with options and futures, interest rate risk management, Value-at-Risk (VaR), Cashflow-at-Risk (CaR), Earnings-at-Risk (EaR), credit risk, equity risk, commodities risk, exchange rate risk, and lessons from risk management disasters.

DC16	Ceyed Baiju	Seats (Total: 45)
	Meets June 1, 2019 - July 20, 2019	
	Sa 2:00pm - 6:30pm	DC C3
	Class time/details on ELMs	ONLINE
	Meets 6/1, 6/15, 6/29, 7/13, Final 7/20.	

BUFN759 **Independent Study in Finance**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in finance.

Contact department for information to register for this course.

BUFN760 **Applied Equity Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN730 or BUFN760.

Students will learn to analyze equity securities using the basic EIC (Economy/Industry/Company) framework used in the financial industry, paying special attention to financial statement analysis. Students also will learn the primary valuation techniques used to estimate market values for equity securities.

BA21	Ryan Guttridge	Seats (Total: 45)
	Meets June 27, 2019 - August 15, 2019	
	M 6:25pm - 10:00pm	BA 102

BUFN768F **Special Topics in Finance; EXPERIENTIAL LEARNING project**

Credits: 1-4 Grading Method: Regular

Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN770 **International Investment**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN721 or BUFN770.

Addresses international stock markets, portfolio theory, international interest rates, exchange rates and exchange rate derivatives (options, forwards, and futures), exchange rate swaps and exchange rate exposure (operating, translation, and transaction), foreign investment strategey.

DC21	Steven Heston	Seats (Total: 45)
	Meets June 27, 2019 - August 15, 2019	
	M 6:25pm - 10:00pm	DC C3

BUMK Marketing Summer 2019

BUMK701 **Marketing Research Methods**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650 and BUSI630. Credit only granted for: BMGT752 or BUMK701. Formerly: BMGT752.

The process of acquiring, classifying and interpreting primary and secondary marketing data needed for intelligent, profitable marketing decisions. Evaluation of the appropriateness of alternative methodologies, such as the inductive, deductive, survey, observational, and experimental. Recent developments in the systematic recording and use of internal and external data needed for marketing decisions.

BA21	David Ashley **Meets June 27, 2019 - August 15, 2019** Tu 6:25pm - 10:00pm	Seats (Total: 45) BA 102
DC21	David Ashley **Meets June 27, 2019 - August 15, 2019** Th 6:25pm - 10:00pm	Seats (Total: 45) DC C3

BUMK715 **Consumer Behavior**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT754 or BUMK715. Formerly: BMGT754.

Analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework is a buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats. Focus is consumer behavior; however, principles can also be applied to the decision-making of business.

GS21	Juhi Naithani **Meets June 27, 2019 - August 15, 2019** W 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUMK717 **Integrated Marketing Communications**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Marketing communications are a complex but critical component of marketing strategy. Topics include communication tools: advertising, sales promotions, corporation communications, one-on-one or direct marketing, public relations, internet communications, sponsorship/events marketing, and marketing communcation plans: defining objectives, implementing the plan, and measuring communications effectiveness. Achieving integration in the content, look, and feel of all marketing communications is stressed.

BA11	Jeremy Brown	Seats (Total: 45)
	Meets May 30, 2019 - July 18, 2019	
	Th 6:25pm - 10:00pm	BA 102

BUMK758P **Special Topics in Marketing; Innovation & Product Development**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

GS11	Amitabh Saxena	Seats (Total: 45)
	Meets May 30, 2019 - July 18, 2019	
	M 6:25pm - 10:00pm	BLD2 3032

BUMK759 **Independent Study in Marketing**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Marketing.

Contact department for information to register for this course.

BUMO Management and Organization Summer 2019

BUMO725 **Networks and Influence**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program. Credit only granted for: BUMO725 or BULM732.

Focuses on networks, social capital, and influence as they relate to operating effectively in organizations. It draws heavily on emerging literature related to social capital and networks, but also integrates concepts from persuasion, communication, and motivation literatures to aid your efforts to build a successful track record for yourself and your organization.

DC16	Gosia Langa Basit	Seats (Total: 45)
	Meets June 1, 2019 - July 20, 2019	
	Sa 8:30am - 1:00pm Class time/details on ELMs	DC C3 ONLINE
	Course meets in a blended format with in-person meetings on 6/1, 6/15, 6/29, and 7/13 with a final exam on 7/20.	

BUMO758C **Special Topics in Management and Organization; International Entrepreneurship**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC16	James Sanders	Seats (Total: 45)
	Meets June 1, 2019 - July 20, 2019	
	Sa 2:00pm - 6:30pm Class time/details on ELMs	DC C2 ONLINE
	Meets 6/1, 6/15, 6/29, 7/13, Final 7/20.	

BUMO758G **Special Topics in Management and Organization; Innovation Management**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC11	Clarence Wesley	Seats (Total: 45)
	Meets May 30, 2019 - July 18, 2019	
	W 6:25pm - 10:00pm	DC C2

BUMO758P **Special Topics in Management and Organization; Corporate Venturing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

WW21	Oliver Schlake	Seats (Total: 25)
	Meets July 29, 2019 - August 19, 2019	
	MW 4:30pm - 6:00pm Contact instructor or department for details.	ONLINE
	Meets 7/29, 7/31, 8/5, 8/7, 8/12, 8/19.	

WW22	Oliver Schlake **Meets July 29, 2019 - August 19, 2019** MW 6:30pm - 8:00pm Contact instructor or department for details. *Meets 7/29, 7/31, 8/5, 8/7, 8/12, 8/19.*	Seats (Total: 25) ONLINE
WW23	Oliver Schlake **Meets July 30, 2019 - August 20, 2019** TuTh 6:30pm - 8:00pm Contact instructor or department for details. *Meets 7/30, 8/1, 8/6, 8/8, 8/13, 8,20.*	Seats (Total: 25) ONLINE

BUMO758W **Special Topics in Management and Organization; Shaping the Corporate Future through Systems and Design Thinking**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC11	Gerald Suarez **Meets May 30, 2019 - July 18, 2019** M 6:25pm - 10:00pm	Seats (Total: 50) DC C2

BUMO759 **Independent Study in Management and Organization**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in management and organization.

Contact department for information to register for this course.

BUMO761 **Creativity for Business Leaders and Entrepreneurs**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI661 or BUMO761. Formerly: BUSI661.

Examines the concept of creativity as it applies in today's and tomorrow's complex business environment. An overview of the cognitive foundations of creativity, examines many of the preconceived notions about creativity in business and discusses multiple ways in which creativity can help business leaders and entrepreneurs to succeed. Topics include creativity techniques for groups and individuals, creativity as a foundation to recognize business opportunities and develop innovative products and services, selecting ideas and making them stick, mental and organizational obstacles to creativity as well as an overview of electronic tools to increase creative capability.

BA11	Oliver Schlake **Meets May 30, 2019 - July 18, 2019** M 6:25pm - 10:00pm	Seats (Total: 45) BA 103
GS11	Oliver Schlake **Meets May 30, 2019 - July 18, 2019** W 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2032

BUSI Part-Time MBA Program Summer 2019

BUSI698 **MBA Consulting Project**

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Experiential research project in the identification of management problems, the evaluation of alternative solutions, and the recommendation for management.

Contact department for information to register for this course.

BUSI758A **Special Topics in Business; Business Communication**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

BA11	Cary Gillett **Meets May 28, 2019 - June 19, 2019** MW 6:25pm - 10:00pm	Seats (Total: 45) BA 104
DC11	Tricia Homer **Meets May 28, 2019 - June 19, 2019** MW 6:25pm - 10:00pm	Seats (Total: 40) DC C3
DC12	Tricia Homer **Meets May 28, 2019 - June 19, 2019** TuTh 6:25pm - 10:00pm	Seats (Total: 40) DC C3
GS11	Jacqueline Pearce Garrett **Meets May 28, 2019 - June 19, 2019** TuTh 6:25pm - 10:00pm	Seats (Total: 40) BLD2 2032

BUSI758M **Special Topics in Business; Computer Simulation for Business Applications**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

BA11	Robert Hoffman	Seats (Total: 45)
	Meets May 30, 2019 - July 18, 2019	
	Tu 6:25pm - 10:00pm	BA 103

BUSI759 **Independent Study in Business**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

CP25	Mary Keim	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	
CP26	Thomas Corsi	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

BUSI761 **The Environment of International Business**

Credits: 2 Grading Method: Regular

Credit only granted for: BMGT794 or BUSI761. Formerly: BMGT794.

The international business environment as it affects company policy and procedures. In-depth analysis and comprehensive case studies of the business functions undertaken in international operations.

WW22	Gary Cohen	Seats (Total: 25)
	Meets July 30, 2019 - August 20, 2019	
	TuTh 4:30pm - 6:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Online synchronous course meetings 7/30, 8/1, 8/6, 8/8, 8/13.	
WW23	Gary Cohen	Seats (Total: 25)
	Meets July 30, 2019 - August 20, 2019	
	TuTh 6:30pm - 8:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Online synchronous course meetings 7/30, 8/1, 8/6, 8/8, 8/13.	

BUSI764 **Business Law for Managers**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI764 or BUAC721.

Survey of United States legal institutions and processes as well as substantive areas of the law that affect business. Examination of tort and contract law, the legal forms of business organization and legal liability and major regulatory laws that affect business.

DC11	Jon Crocker	Seats (Total: 45)
	Meets May 30, 2019 - July 18, 2019	
	Tu 6:25pm - 10:00pm	DC C2

BUSO Online MBA Program Summer 2019

BUSO604 **Managerial Economics and Public Policy**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: EMBA681 or BUSO604.

Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

SO11	Aaron Finkle	Seats (Total: 25)
	Meets June 24, 2019 - August 10, 2019	
	M 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE
SO12	Aaron Finkle	Seats (Total: 25)
	Meets June 24, 2019 - August 10, 2019	
	M 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE
SO13	Ioan Daraban	Seats (Total: 25)
	Meets June 24, 2019 - August 10, 2019	
	M 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

SO15	Aaron Finkle **Meets June 24, 2019 - August 10, 2019** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO16	Aaron Finkle **Meets June 24, 2019 - August 10, 2019** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO17	Ioan Daraban **Meets June 24, 2019 - August 10, 2019** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO18	Ioan Daraban **Meets June 24, 2019 - August 10, 2019** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

BUSO612 **Marketing Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: EMBA757 or BUSO612.

Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.

SO11	Fred Katz **Meets May 6, 2019 - June 22, 2019** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO13	Mary Beth Furst **Meets May 6, 2019 - June 22, 2019** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

SO14	Mary Beth Furst **Meets May 6, 2019 - June 22, 2019** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO15	David Godes **Meets May 6, 2019 - June 22, 2019** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO16	David Godes **Meets May 6, 2019 - June 22, 2019** Tu 8:45pm - 10:45pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO17	Henry Boyd **Meets May 6, 2019 - June 22, 2019** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO18	Henry Boyd **Meets May 6, 2019 - June 22, 2019** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

BUSO700 **Fundamentals of Business**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

This course introduces students to the language of business. Topics covered include financial accounting, financial management, data models, strategy, leadership and teamwork, and a brief action learning project on innovation. Pre-work includes the DISC assessment, and a requires a passing grade on a spreadsheet pre-work course.

SO91	Judy Frels **Meets May 2, 2019 - May 4, 2019** ThFSa 8:00am - 8:00pm	Seats (Total: 100) Location: TBA

BUSO703 **Action Learning Project II**

Credits: 3 Grading Method: Regular

Prerequisite: BUSO702. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

The objective of the Action Learning Project I and II is for teams to identify and solve/dissolve business problems that currently exist in organizations and inthe process, to provide significant value to organizations and their stakeholders. The experience of solving/dissolving business problems will both enablestudents to apply knowledge learned in core courses and to develop the wisdom, skills, and problem-solving capabilities of team members. This course isdesigned to promote independent learning. Faculty members will offer mini-modules on key themes such as organizational support, team dynamics and peerfeedback, but their primary role will be to facilitate the ALP process and serve as consultants to the student teams.

SO22	Protiti Dastidar **Meets May 6, 2019 - August 10, 2019** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO23	Neta Moye **Meets May 6, 2019 - August 10, 2019** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO24	Neta Moye **Meets May 6, 2019 - August 10, 2019** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO25	Neta Moye **Meets May 6, 2019 - August 10, 2019** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO26	Toby Egan **Meets May 6, 2019 - August 10, 2019** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO27	Toby Egan **Meets May 6, 2019 - August 10, 2019** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE

BUSO705 **Business Communications**

Credits: 2 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program.

Develop the ability to communicate with and about data.

SO21	Christine Schaaf **Meets May 6, 2019 - June 22, 2019** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO23	Caroline Wilkins **Meets May 6, 2019 - June 22, 2019** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO24	Caroline Wilkins **Meets May 6, 2019 - June 22, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO25	Christine Schaaf **Meets May 6, 2019 - June 22, 2019** Th 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO27	Melissa Lucas **Meets May 6, 2019 - June 22, 2019** Th 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE

BUSO706 **Organizational Change**

Credits: 2 Grading Method: Regular

Prerequisite: BUSM600; or BUSO600; or BUSI662; or EMBA656. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSO706 or BUSM755.

Develops the advanced knowledge and skills of MBA students who plan to work with organizations as change agents. Concrete and useful strategies, tools, and interventions for diagnosing organizational change situations, analyzing problems, and designing and implementing organizational change. Draws on literature from organizational behavior, human resource management and strategic management to identify models as prescriptions of change.

For cohort 1704 students only.

SO21	Sheetal Singh **Meets May 6, 2019 - June 22, 2019** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 20) ONLINE ONLINE
SO22	Sheetal Singh **Meets May 6, 2019 - June 22, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 20) ONLINE ONLINE

BUSO713 **Supply Chain Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI672, BULM720 or BUSO713.

Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.

SO11	Richard Hutchins **Meets June 24, 2019 - August 10, 2019** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO12	Richard Hutchins **Meets June 24, 2019 - August 10, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE

SO13	Geoffrey Milsom **Meets June 24, 2019 - August 10, 2019** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO14	Geoffrey Milsom **Meets June 24, 2019 - August 10, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO15	Humberto Coronado **Meets June 24, 2019 - August 10, 2019** Th 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO16	Richard Hutchins **Meets June 24, 2019 - August 10, 2019** Th 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO17	Leland Gardner **Meets June 24, 2019 - August 10, 2019** Th 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE
SO18	Leland Gardner **Meets June 24, 2019 - August 10, 2019** Th 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 23) ONLINE ONLINE

BUSO732 **Managing Digital Business Markets and Platforms**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI622, BUSM622 or BUSO732.

The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can best manage them will be examined.

SO31	Joseph Bailey **Meets June 24, 2019 - August 10, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO32	Joseph Bailey **Meets June 24, 2019 - August 10, 2019** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

BUSO750 **Global Trade Logistics**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT773, BULM733 or BUSO750.

Acquaints students with managerial issues in international logistics and transportation, and provides students with an understanding of issues related to import/export management and the global marketplace.

SO31	Gary Cohen **Meets June 24, 2019 - August 10, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

BUSO758M **Special Topics in Business; Decision Modeling**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

SO11	Si Chen **Meets May 6, 2019 - June 22, 2019** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 24) ONLINE ONLINE
SO12	Si Chen **Meets May 6, 2019 - June 22, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 24) ONLINE ONLINE

SO13	Mustafa Sahin **Meets May 6, 2019 - June 22, 2019** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 24) ONLINE ONLINE
SO14	Mustafa Sahin **Meets May 6, 2019 - June 22, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 24) ONLINE ONLINE
SO16	Raghu Raghavan **Meets May 6, 2019 - June 22, 2019** Th 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 24) ONLINE ONLINE
SO17	Arnold Greenland **Meets May 6, 2019 - June 22, 2019** Th 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 24) ONLINE ONLINE
SO18	Robert Hoffman **Meets May 6, 2019 - June 22, 2019** Th 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 24) ONLINE ONLINE
SO19	Robert Hoffman **Meets May 6, 2019 - June 22, 2019** Th 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 24) ONLINE ONLINE

BUSO758N **Special Topics in Business; Co-Creating Customer Experiences**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

SO31	Gaurav Bhalla **Meets June 24, 2019 - August 10, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

SO32	Gaurav Bhalla	Seats (Total: 25)
	Meets June 24, 2019 - August 10, 2019	
	W 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO758R **Special Topics in Business; Commercial Bank Management**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

SO31	Clifford Rossi	Seats (Total: 25)
	Meets June 24, 2019 - August 10, 2019	
	W 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO758Z **Special Topics in Business; INTEGRATIVE BUSINESS SIMulation**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

SO92	Judy Frels	Seats (Total: 100)
	Meets August 16, 2019 - August 18, 2019	
	FSaSu 8:00am - 8:00pm	Location: TBA

BUSO780 **Fraud Examination, Detection, and Deterrence in the Business Environment**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

The world is full of fraud schemes, victims, schemers, and those who catch them. Business, the public sector, and non-profitshave their bottom lines impacted every day by fraud. This class is about all of this, and is an introduction to fraud in theoperational environment. The primary objective of this course is for students to gain a conceptual understanding of how fraudoccurs, how it can be prevented, and how fraud can be detected through practical application of skills and tools. We will alsobriefly practice the skills needed for providing testimony in court as a lay or expert witness. This course addresses generalbackground relating to fraud, delves into the myriad types of financial fraud, corruption, employee theft, cybercrime, identitytheft, red collar crime, scams, and examines the trends in fraud detection and investigation. The goal is that, whether youbecome a fraud fighter, or continue in your management careers, you will leverage this course to prevent and detect fraud atyour workplace.

SO31	Samuel Handwerger **Meets June 24, 2019 - July 27, 2019** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

CBMG Cell Biology & Molecular Genetics Summer 2019

CBMG699 **Special Problems in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Master's Thesis Research in Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Doctoral Dissertation Research.

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)
0213	Jonathan Dinman **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0220	Wenxia Song **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0260	Heven Sze **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0275	David Mosser **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

CCJS Criminology and Criminal Justice Summer 2019

CCJS100 **Introduction to Criminal Justice**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.

0201	Anat Kimchi **Meets July 8, 2019 - August 16, 2019** MTuWTh 9:00am - 10:40am	Seats (Total: 22) TYD 2106
WB11	Anat Kimchi **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE

CCJS105 **Introduction to Criminology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation; prevention of crime.

0201	Jessica Miller **Meets July 8, 2019 - August 16, 2019** MTuWTh 11:00am - 12:40pm	Seats (Total: 22) TYD 2106

WB11	Jessica Deitzer **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE
YS41	Cassandra Philippon **Meets July 8, 2019 - July 26, 2019** MTuWThF 9:00am - 12:00pm *This section is part of Terp Young Scholars. Enrollment by permission only. Email summer@umd.edu for further information.*	Seats (Total: 29) TYD 2111

CCJS200 **Statistics for Criminology and Criminal Justice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: CCJS100 or CCJS105. And 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH135, MATH140); or must have completed MATH220 with a minimum grade of C-. Restriction: Must be in Criminology and Criminal Justice program; or permission of BSOS-Criminology & Criminal Justice department. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introduction to descriptive and inferential statistics, graphical techniques, and the computer analysis of criminology and criminal justice data. Basic procedures of hypothesis testing, correlation and regression analysis, and the analysis of continuous and binary dependent variables. Emphasis upon the examination of research problems and issues in criminology and criminal justice.

Please note, for Summer Term, restrictions will not apply.

0101	Alan Lehman **Meets May 28, 2019 - July 5, 2019** MTuWTh 1:00pm - 2:40pm	Seats (Total: 50) LEF 2166

CCJS300 **Criminological and Criminal Justice Research Methods**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: CCJS100 and CCJS105; and (PSYC200, CCJS200, ECON321, BMGT230, or SOCY201).

Introduction to the formulation of research questions covering crime and justice, research designs, data collection, and interpretation and reporting in criminological and justice-system settings.

0101	Alan Lehman	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 11:00am - 12:40pm	LEF 2166

CCJS320 **Introduction to Criminalistics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in the detection, investigation and solution of crimes. Practical analysis of evidence in a crime laboratory, including fingerprints and other impressions, firearms ID and ballistics, hairs and fibers, document examination, and use of polygraph.

HY20	Thomas Mauriello	Seats (Total: 24)	
	Meets July 8, 2019 - August 16, 2019		
	Class time/details on ELMs	ONLINE	
	M 6:00pm - 8:45pm	MMH 2401	Discussion

CCJS345 **Courts and Sentencing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department.

Contemporary issues in the American court system such as prosecution, sentencing and punishment. Theoretical perspectives on courtroom decision-making integrated with empirical research. Courts and sentencing processes, including initial charging, pretrial detention and final sentencing outcomes. Innovations in courts and sentencing.

Please note, for Summer Term, restrictions will not apply.

WB11	Katie Zafft	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

CCJS359 **Field Training in Criminology and Corrections**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.

Contact department for information to register for this course.

CCJS370 **Race, Crime and Criminal Justice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVUP

Prerequisite: CCJS100.

Role and treatment of racial/ethnic minorities in the criminal justice system. Course will provide students with historical and theoretical framework for understanding this dynamic.

WB21	Christine White	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

CCJS386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Criminology & Criminal Justice department; and junior standing or higher.

Contact department for information to register for this course.

CCJS398 **Law Enforcement Field Training; LAW ENFORCEMENT FIELD TRAINING**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Supervised, structured and focused field training in law enforcement agencies.

Contact department for information to register for this course.

CCJS399 **Independent Study in Criminology and Criminal Justice**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under direction and supervision of a faculty member.

Contact department for information to register for this course.

CCJS418R **Seminar in Criminology and Criminal Justice; School Climate and School Safety**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

Prerequisites: CCJS 100, CCJS 105, and CCJS 300.

WB21	Deanna Devlin	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

CCJS451 **Crime and Delinquency Prevention**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300.

Methods and programs in prevention of crime and delinquency.

WB21	Katie Zafft	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

CCJS458A **Special Topics in Study Abroad IV; Human Trafficking in Context: Reactions to Human Traffickingin Thailand**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS458B **Special Topics in Study Abroad IV; Human Trafficking in Context: The Vulnerabilities Assosciated with Being a Refugee in Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS605 **Program Evaluation for Criminal Justice**

Credits: 3 Grading Method: Regular

Credit only granted for: CCJS605 or CCJS609. Formerly: CCJS609.

Designing, implementing and evaluating programs in criminal justice. Topics include diagnosing program needs, planning and tailoring evaluation programs, program monitoring, assessing program impact, program efficiency, and the social context of evaluation.

Contact department for information to register for this course.

CCJS651 **Seminar in Criminology**

Credits: 3 Grading Method: Regular, Audit

Formerly: CRIM651.

Analysis of significant recent issues in Criminology.

Contact department for information to register for this course.

CCJS678K **Advanced Topics in Criminology and Criminal Justice; Research Methodology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS678L **Advanced Topics in Criminology and Criminal Justice; Professional Development for Criminology in China**

Credits: 3 Grading Method: Regular, Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS699 **Special Criminological Problems**

Credits: 1-3 Grading Method: Regular, Audit

Supervised study of a selected problem in the field of criminal justice.

Contact department for information to register for this course.

CCJS720 **Criminal Justice System Planning: Policy Analysis for Crime Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed 1 course in research methodology; and 1 course in CCJS. Formerly: CJUS720.

System theory and method; examination of planning methods and models based primarily on a systems approach to the operations of the criminal justice system.

Contact department for information to register for this course.

CCJS799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CCJS899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Doctoral dissertation research in criminal justice and criminology.

Contact department for information to register for this course.

CHBE Chemical and Biomolecular Engineering Summer 2019

CHBE101 **Introduction to Chemical and Biomolecular Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM135; or students who have taken courses with comparable content may contact the department. Corequisite: MATH141. Restriction: Must be in Engineering: Chemical program; or permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE101 or ENCH215. Formerly: ENCH215.

Introduction to methods of chemical engineering calculations and analysis. Stoichiometric relations, material and energy balances, and behavior of gases, vapors, liquids and solids. Analytical and computer methods.

0101	Deborah Goldberg	Seats (Total: 43)
	Meets May 28, 2019 - July 5, 2019	
	TuWTh 1:00pm - 3:40pm	CHE 2108

CHBE250 **Computer Methods in Chemical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in MATH241. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE250 or ENCH250. Formerly: ENCH250.

Algorithm development and application of software to the analysis of chemical engineering problems. File management and editing, graphics and numerical methods. Use of spreadsheets, statistics/math software and process simulators for the design of chemical process equipment.

0201	Nam Sun Wang	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	MWF 1:00pm - 3:40pm	CHE 2136

CHBE301 **Chemical and Biomolecular Engineering Thermodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in CHBE250 and MATH241. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH300 or CHBE301. Formerly: ENCH300.

Principles of thermodynamics and their application to engineering problems. First and second laws of thermodynamics, properties of gases, liquids and solids, phase equilibrium, flow and non-flow systems, energy conversion, production of work from heat, thermodynamic analysis of processes, equilibrium stage operations and the thermodynamics of chemically reacting systems.

0201	Daphne Fuentevilla	Seats (Total: 43)
	Meets July 8, 2019 - August 16, 2019	
	TuW 4:30pm - 7:30pm	CHE 2136
	Th 4:30pm - 6:30pm	CHE 2136

CHBE437 **Chemical and Biomolecular Engineering Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE437 or ENCH437. Formerly: ENCH437.

Application of chemical engineering process and unit operation principals in small-scale semi-commercial equipment. Data from experimental observations are used to evaluate performance and efficiency of operations. Emphasis on correct presentation of results inreport form.

0101	Audaldo Ponce	Seats (Total: 24)	
	Meets May 28, 2019 - July 5, 2019		
	Tu 11:30am - 12:30pm	CHE 2145	
	Th 11:00am - 12:00pm	CHE 2145	
	TuTh 1:00pm - 5:00pm	CHE 1145	Lab

CHEM Chemistry Summer 2019

CHEM131 **Chemistry I - Fundamentals of General Chemistry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with CHEM132)

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

0131	Natalia White	Seats (Total: 40)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 8:00am - 9:20am	CHM 1402	
	TuTh 10:00am - 11:20am	CHM 2201	Discussion
0138	Earle Stone	Seats (Total: 40)	
	Meets May 28, 2019 - July 19, 2019		
	TuTh 4:15pm - 6:30pm	ESJ 1215	
	TuTh 7:00pm - 7:50pm	ESJ 1215	Discussion

CHEM132 **General Chemistry I Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Students must pay a $40.00 lab materials fee.

0131	Natalia White	Seats (Total: 24)	
	Meets May 28, 2019 - July 5, 2019		
	MWF 9:30am - 12:20pm	ESJ 1312	Lab
0138	Earle Stone	Seats (Total: 24)	
	Meets May 28, 2019 - July 19, 2019		
	MW 4:00pm - 7:00pm	ESJ 1316	Lab

CHEM135 **General Chemistry for Engineers**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Credit only granted for: CHEM103, CHEM113, CHEM131, CHEM135, or CHEM146.

The nature and composition of matter, solutions, chemical reactions, equilibria, and electrochemistry, with applications to various fields of engineering.

0151	Elizabeth Griffith	Seats (Total: 30)	
	Meets May 28, 2019 - July 19, 2019		
	MTuWTh 11:00am - 12:20pm	CHM 1109	
	TuTh 9:30am - 10:50am	CHM 1109	Discussion

CHEM231 **Organic Chemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, CHEM147, or CHEM177); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM232. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters and spectroscopy.

0171	Christopher Capp	Seats (Total: 34)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 11:00am - 12:20pm	CHM 1407	
	TuTh 9:30am - 10:50am	CHM 0119	Discussion

0172	Christopher Capp **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
0173	Christopher Capp **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 28) CHM 1407 CHM 0124	 Discussion
0178	Lenea Stocker **Meets May 28, 2019 - July 19, 2019** TuTh 4:15pm - 6:30pm TuTh 7:00pm - 7:50pm	Seats (Total: 40) CHM 1402 CHM 2201	 Discussion
0271	Monique Koppel **Meets July 8, 2019 - August 16, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 33) CHM 1402 CHM 0127	 Discussion
0272	Monique Koppel **Meets July 8, 2019 - August 16, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 27) CHM 1402 CHM 0124	 Discussion

CHEM232 **Organic Chemistry Laboratory I**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.

Students must pay a $40.00 Laboratory Materials fee.

0171	Christopher Capp **Meets May 28, 2019 - July 5, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1360	 Lab

0172	Christopher Capp **Meets May 28, 2019 - July 5, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1356	 Lab
0173	Christopher Capp **Meets May 28, 2019 - July 5, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1346	 Lab
0178	Lenea Stocker **Meets May 28, 2019 - July 19, 2019** MW 4:00pm - 7:00pm	Seats (Total: 18) CHM 1342	 Lab
0271	Monique Koppel **Meets July 8, 2019 - August 16, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1360	 Lab
0272	Monique Koppel **Meets July 8, 2019 - August 16, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1356	 Lab

CHEM241 **Organic Chemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Credit only granted for: CHEM241, CHEM243 or CHEM247. Formerly: CHEM243.

A continuation of CHEM231 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

0191	Bonnie Dixon **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1402 CHM 1228	 Discussion
0192	Bonnie Dixon **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1402 CHM 0127	 Discussion

0291	Lee Friedman **Meets July 8, 2019 - August 16, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1407 CHM 1228	 Discussion
0292	Lee Friedman **Meets July 8, 2019 - August 16, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1407 CHM 0128	 Discussion
0293	Lee Friedman **Meets July 8, 2019 - August 16, 2019** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1407 CHM 1224	 Discussion

CHEM242 **Organic Chemistry Laboratory II**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM241. Credit only granted for: CHEM243 or CHEM247. Formerly: CHEM243.

Synthetic organic chemistry through functional group manipulation, introduction to instrumentation essential to analysis and structure elucidation.

Students must pay a $40.00 Laboratory Materials fee.

0191	Bonnie Dixon **Meets May 28, 2019 - July 5, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1326	 Lab
0192	Bonnie Dixon **Meets May 28, 2019 - July 5, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1330	 Lab
0291	Lee Friedman **Meets July 8, 2019 - August 16, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1326	 Lab

0292	Lee Friedman **Meets July 8, 2019 - August 16, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1330	 Lab
0293	Lee Friedman **Meets July 8, 2019 - August 16, 2019** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1308	 Lab

CHEM271 **General Chemistry and Energetics**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM272. Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM113.

An introduction to the physical aspects of chemistry; chemical kinetics thermodynamics and electrochemistry in the context of current chemistry research.

0241	Pedro Bueno **Meets July 8, 2019 - August 16, 2019** MWF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 26) JMP 3201 CHM 2201	 Discussion
0242	Pedro Bueno **Meets July 8, 2019 - August 16, 2019** MWF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 26) JMP 3201 CHM 0119	 Discussion

CHEM272 **General Bioanalytical Chemistry Laboratory**

Credits: 2 Grading Method: Regular, Pass-Fail

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM271. Credit only granted for: CHEM227, CHEM272 or CHEM277.

An introduction to analytical chemistry with an emphasis on bio-analytical instrumentation and techniques.

Students must pay a $40.00 laboratory materials fee.

0241	Pedro Bueno	Seats (Total: 24)	
	Meets July 8, 2019 - August 16, 2019		
	TuTh 11:00am - 12:20pm MWF 8:00am - 10:50am	JMP 3201 ESJ 2312	Lab
0242	Pedro Bueno	Seats (Total: 24)	
	Meets July 8, 2019 - August 16, 2019		
	TuTh 11:00am - 12:20pm MWF 8:00am - 10:50am	JMP 3201 ESJ 2316	Lab

CHEM399 **Introduction to Chemical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399A **Introduction to Chemical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399B **Introduction to Chemical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399C **Introduction to Chemical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399X **Introduction to Chemical Research**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

0101	Michael Montague-Smith **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0102	Lee Friedman **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Michael Montague-Smith **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

CHEM699 **Special Problems in Chemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment.

Contact department for information to register for this course.

CHEM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHEM898 **Pre-Candidacy Research**

Credits: 1 Grading Method: Regular, Sat-Fail

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

0104	Lai-Xi Wang **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0207	Myles Poulin **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0212	Bryan Eichhorn **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0283	Michael Zachariah **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
I101	Herman Sintim **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
I201	Herman Sintim **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

CHEM899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHIN Chinese Summer 2019

CHIN169A **Special Topics in Study Abroad I; Elementary Chinese I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN169B **Special Topics in Study Abroad I; Elementary Chinese II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN169C **Special Topics in Study Abroad I; Introduction to Chinese Language I**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN169D **Special Topics in Study Abroad I; Introduction to Chinese Lanuage II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN201 **Intermediate Spoken Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: CHIN102; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN202. Additional information: Must be taken in conjunction with CHIN202.

Emphasis on development of conversational skills with vocabulary build-up and controlled conversation.

CHIN201 and 202 are co-requisites. Students must take both together.

0101	Jungjung Lee-Heitz	Seats (Total: 15)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 9:00am - 10:30am	JMZ 2122	
	MTuWThF 12:00pm - 1:00pm	JMZ 2122	Lab

CHIN202 **Intermediate Written Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: CHIN103; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN201. Additional information: Must be taken in conjunction with CHIN201.

Reading and writing skills with emphasis on grammar and Chinese characters.

CHIN201 and 202 are co-requisites. Students must take both together.

0101	Jungjung Lee-Heitz	Seats (Total: 15)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 10:30am - 12:00pm	JMZ 2122	
	MTuWThF 1:00pm - 2:00pm	JMZ 2122	Lab

CHIN203 **Intermediate Spoken Chinese II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: CHIN201; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN204. Additional information: Must be taken in conjunction with CHIN204.

Continuation of CHIN201.

CHIN203 and 204 are co-requisites. Students must take both together.

0201	Yuli Wang	Seats (Total: 15)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 9:00am - 10:30am	JMZ 3205	
	MTuWThF 12:00pm - 1:00pm	JMZ 3205	Lab

CHIN204 **Intermediate Written Chinese II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN203. Additional information: Must be taken in conjunction with CHIN203.

Continuation of CHIN202.

CHIN203 and 204 are co-requisites. Students must take both together.

0201	Yuli Wang	Seats (Total: 15)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 10:30am - 12:00pm	JMZ 3205	
	MTuWThF 1:00pm - 2:00pm	JMZ 3205	Lab

CHIN269A **Special Topics in Study Abroad II; Exploring Confucius' China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269B **Special Topics in Study Abroad II; Chinese Business Issues and Practices**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269I **Special Topics in Study Abroad II; Intermediate Spoken Chinese I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269J **Special Topics in Study Abroad II; Intermediate Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269K **Special Topics in Study Abroad II; Intermediate Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269P **Special Topics in Study Abroad II; The China Phenomenon: Society, Politics and Business**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269V **Special Topics in Study Abroad II; Chinese Calligraphy I**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269W **Special Topics in Study Abroad II; Chinese Calligraphy II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269Z **Special Topics in Study Abroad II; Modern Chinese Culture and Society**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN301 **Advanced Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in expository and fictional writing with conversation and composition.

Contact department for information to register for this course.

CHIN302 **Advanced Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHIN301; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Continuation of CHIN301.

Contact department for information to register for this course.

CHIN315 **Modern Chinese Literature in Translation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DSHU

Major works of fiction and drama from 1920 to the present read in the context of social and literary change. Emphasis on western and traditional Chinese influences on the writers and their works. No knowledge of Chinese required.

0301	Satoru Hashimoto	Seats (Total: 30)
	Meets May 28, 2019 - June 14, 2019	
	MTuWThF 9:00am - 11:45am	JMZ 3205

CHIN369B **Special Topics in Study Abroad III; Advanced Chinese I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369C **Special Topics in Study Abroad III; Advanced Chinese II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369E **Special Topics in Study Abroad III; Advanced Chinese IV**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHPH Chemical Physics Summer 2019

CHPH718D **Special Topics in Chemical Physics; Sodium Spinor Bose-Einstein Condensation**

Credits: 3 | Grading Method: Regular, Audit

A discussion of current research problems in chemical physics.

0149	Paul Lett	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

CHPH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHPH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CHPH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CLAS Classics Summer 2019

CLAS170 **Greek and Roman Mythology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Cross-listed with RELS170. Credit only granted for: CLAS170 or RELS170 Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This cours is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0201	Talia Chicherio **Meets July 8, 2019 - August 16, 2019** MTuWTh 10:00am - 11:40am	Seats (Total: 16) TYD 2108
WB11	Rachel Mullervy **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

CLAS269R **Special Topics in Study Abroad II; Are We Rome?**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CLAS289A **Are We Rome?**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS, DSHU, SCIS

WB21	Gregory Staley	Seats (Total: 35)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

CLAS380 **Archaeological Fieldwork in Greece**

Credits: 4	Grading Method: Regular	General Education: DSHS, DSHU

Credit only granted for: CLAS369K or CLAS380. Formerly: CLAS369K.

Students will learn about the archaeology, history and culture of Greece by participating in the archaeological investigations at Kenchreai, the eastern port of ancient Corinth. Students will learn about data analysis, artifact processing, and conservation, all important components in archaeological fieldwork. This program also gives students a rare chance to live and to learn in one of the most archaeologically rich, historically important, and naturally beautiful regions in Greece, the northeastern Peloponnese. Students will visit sites and museums throughout this region, attend seminars, and experience life in a small village. In this way they will learn not only about the practice of archaeological field research, but also about Greek history and culture from ancient to modern times. While the course focuses on southern Greece during the Roman Empire and Late Antiquity, a period of prosperity and diversity at Kenchreai and in its broader area, students will also explore cultural and historical developments that influenced other regions and longer periods, from the Bronze Age to the Modern era, including religion and cult-practice, art and iconography, settlement and the environment, and the construction of identity.

Contact department for information to register for this course.

CLAS470 **Approaches to Greek Mythology**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHU

Prerequisite: CLAS170; or permission of ARHU-Classics department.

Ancient and modern approaches to understanding Greek myth as expression of human experience, including interpretations drawn from psychology, anthropology, and comparative mythology.

WB11	Madeleine Goh	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

CLAS499 **Independent Study in Classical Languages and Literatures**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CLAS699 **Independent Study in Classical Civilization**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Contact department for information to register for this course.

CLAS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CLFS Chemical and Life Sciences Summer 2019

CLFS608 **Seminar in Current Topics in Chemical and Life Science; Scholarly Paper**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Directo or instructor before registering.

Contact Dr. Brett Kent (bkent@umd.edu) to establish a mentor; and then contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS608A **Seminar in Current Topics in Chemical and Life Science; Independent Research**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Directo or instructor before registering.

Contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS609E **Special Topics; Immunology**

Credits: 3

Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

PL01	Kenneth Frauwirth	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Must be in Master of Chemical & Life Sciences Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	
PLCM	Kenneth Frauwirth	Seats (Total: 15)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	For permission to enroll, contact oes@umd.edu. Part of the Master of Chemical & Life Sciences Program.	

CLFS609J **Special Topics; Evolutionary Biology**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

PL01	Alina Avanesyan	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Must be in Master of Chemical & Life Sciences Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	

CLFS655 **The Chemistry and Applications of Electrochemical Cells**

Credits: 3 Grading Method: Regular, Audit

Chemistry of electrochemical cells including the thermodynamic basis for the production of electrical energy by cells, the chemical reactions utilized by the most common cells, the manufacture of cells, and the application of cells in energy production.

PL01	Marjan Alaghmand	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Must be in Master of Chemical & Life Sciences Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	

PLCM	Marjan Alaghmand	Seats (Total: 15)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	For permission to enroll, contact oes@umd.edu. Part of the Master of Chemical & Life Sciences Program.	

CLFS660 **Biodiversity and Conservation Biology**

Credits: 3 Grading Method: Regular, Audit

Application of ecological and evolutionary principles to assess the impact of the human species on the environment and its inhabitants. Specific case studies are included to illustrate problems of bidiversityloss and actions required to reverse the trends.

PL01	Marcia Shofner	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Must be in Master of Chemical & Life Sciences Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	
PLCM	Marcia Shofner	Seats (Total: 15)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	For permission to enroll, contact oes@umd.edu. Part of the Master of Chemical & Life Sciences Program.	

CLFS725 **Experimental Design**

Credits: 2 Grading Method: Regular, Audit

Credit only granted for: LFSC710, LFSC719, or LFSC725. Formerly: LFSC719.

Experimental design and statistics for science teachers that emphasizes the underlying structure of data and how this affects the quality and reliability of experiments. Examines the nature of data, the methods for designing rigorous experiments, important experimental design formats, and the relationships between data structure and analysis. Course work focuses on the design and analysis of orginal experiments for a series of research problems.

PL01	Bretton Kent	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Must be in Master of Chemical & Life Sciences Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	
PLCM	Bretton Kent	Seats (Total: 15)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	For permission to enroll, contact oes@umd.edu. Part of the Master of Chemical & Life Sciences Program.	

CMSC Computer Science Summer 2019

CMSC131 **Object-Oriented Programming I**

Credits: 4 Grading Method: Regular

Corequisite: MATH140.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

For CMSC majors only.

0101	Fawzi Emad	Seats (Total: 60)
	Meets May 28, 2019 - August 7, 2019	
	MTuWThF 11:05am - 12:25pm	CSI 3117

CMSC132 **Object-Oriented Programming II**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam; or must have earned a satisfactory score on the departmental placement exam. And minimum grade of C- in MATH140.

Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.

Must have permssion of CMNS - Computer Science Department.

0101	Anwar Mamat	Seats (Total: 118)
	Meets May 28, 2019 - August 7, 2019	
	MTuWThF 9:30am - 10:50am	CSI 1115

CMSC198Q **Special Topics in Computer Science for Non-Majors; Introduction to Computing and Programming**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course designed to allow non-computer science majors and non-computer engineering majors to pursue a specialized topic or project.

This course provides an introduction to computing and programming. Students will learn the difference between a programmer and a well-trained software developer. The major goal of this course is to introduce students to the complexities of developing solid software and the principles of systematic problem solving through programming and the basic rules of computation. This course exposes students to the fundamental techniques of program design: the study of systematic thought, planning, and universally useful problem-solving skills applied in the setting of programming and computation. While taking this course will not make someone a great programmer, you cannot become a great programmer without mastering these skills.

YS41	David Van Horn	Seats (Total: 44)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 10:00am - 1:00pm	IRB 2207
	This section is part of Terp Young Scholars. Enrollment by permission only. Email summer@umd.edu for further information.	

CMSC198R **Special Topics in Computer Science for Non-Majors; Introduction to Web Programming using HTML/JavaScript**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course designed to allow non-computer science majors and non-computer engineering majors to pursue a specialized topic or project.

YS41	Nelson Padua-Perez	Seats (Total: 28)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 10:00am - 1:00pm	ESJ 2309
	This section is part of Terp Young Scholars. Enrollment by permission	

CMSC216 **Introduction to Computer Systems**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC132; and minimum grade of C- in MATH141. Corequisite: CMSC250. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program.

Introduction to the interaction between user programs and the operating system/hardware. Major topics include C programming, introductory systems programming, and assembly language. Other concepts covered include UNIX, machine data representation, thread management, optimization, and virtual memory. Programming is done in the Linux Environment.

0101	Nelson Padua-Perez	Seats (Total: 115)
	Meets May 28, 2019 - August 7, 2019	
	MTuWThF 2:05pm - 4:10pm	CSI 1115

CMSC250 **Discrete Structures**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program. Formerly: CMSC150.

Fundamental mathematical concepts related to computer science, includin finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Aditya Acharya	Seats (Total: 65)
	Meets May 28, 2019 - July 19, 2019	
	MTuWThF 12:30pm - 2:00pm	CSI 3117

CMSC298A **Special Topics in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

A course designed to allow a lower level student to pursue a specialize topic or project.

Contact department for information to register for this course.

CMSC320 **Introduction to Data Science**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science department.

An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of several topics including statistical data analysis, basic data mining and machine learning algorithms, large-scale data management, cloud computing, and information visualization.

0101	Mohammad Nayeem Teli	Seats (Total: 45)
	Meets May 28, 2019 - July 19, 2019	
	MTuWThF 2:00pm - 3:25pm	CSI 1121

CMSC330 **Organization of Programming Languages**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in the Computer Science Minor program; or must be in Engineering: Computer program.

A study of programming languages, including their syntax, semantics, and implementation. Several different models of languages are discussed, including dynamic, scripting (e.g., Ruby, Python) functional (e.g., OCaml, Haskell, Scheme), and memory safe systems programming (e.g., Rust). Explores language features such as formal syntax, scoping and binding of variables, higher-order programming, typing, and type polymorphism. Introduces finite automata, context free grammar, parsing, lambda calculus, and basics of security attacks and software security.

0101	Anwar Mamat	Seats (Total: 86)
	Meets May 28, 2019 - July 19, 2019	
	MTuWThF 11:00am - 12:20pm	CSI 1115

CMSC351 **Algorithms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program. Credit only granted for: CMSC251 or CMSC351. Additional information: CMSC351 may not count as one of the required upper level CMSC courses for students who are required to have 24 upper level CMSC credits for graduation, i.e. for students who became computer science majors prior to Fall, 2002.

A systematic study of the complexity of some elementary algorithms related to sorting, graphs and trees, and combinatorics. Algorithms are analyzed using mathematical techniques to solve recurrences and summations.

0101	Clyde Kruskal	Seats (Total: 73)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 9:30am - 10:55am	CSI 3117

CMSC389N **Special Topics in Computer Science; Introduction to PHP and Javascript**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department.

0101	Michael Hicks	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 8:30am - 9:55am	CSI 2117

CMSC411 **Computer Systems Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: ENEE446 or CMSC411.

Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.

0201	Ilchul Yoon	Seats (Total: 73)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 11:00am - 12:20pm	IRB 1116

CMSC420 **Data Structures**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Description, properties, and storage allocation functions of data structures including balanced binary trees, B-Trees, hash tables, skiplists, tries, KD-Trees and Quadtrees. Algorithms for manipulating structures. Applications from areas such as String Processing, Computer Graphics, Information Retrieval, Computer Networks, Computer Vision, and Operating Systems.

0101	Michelle Hugue	Seats (Total: 80)
	Meets May 28, 2019 - July 19, 2019	
	MTuWTh 12:30pm - 1:55pm	CSI 2117

CMSC498A **Selected Topics in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Contact department for information to register for this course.

CMSC499A **Independent Undergraduate Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

Contact department for information to register for this course.

CMSC798 **Graduate Seminar in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

CMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CMSC898 **Pre-Candidacy Research**

(Perm req) Credits: 1-8 Grading Method: Regular, Sat-Fail

Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students.

Contact department for information to register for this course.

CMSC899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

COMM Communication Summer 2019

COMM107 Oral Communication: Principles and Practices

Credits: 3 Grading Method: Regular, Pass-Fail General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.

This course is restricted to COMM majors (1506A) only.

0101	Alex Thomas **Meets May 28, 2019 - July 5, 2019** TuTh 6:30pm - 9:50pm	Seats (Total: 19) PLS 1180
0201	Yumin Yan **Meets July 8, 2019 - August 16, 2019** MW 6:30pm - 9:50pm	Seats (Total: 19) SKN 0104
WB11	Duli Shi **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Neha Kamran **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE

COMM200 Critical Thinking and Speaking

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

WB11	Randall Fowler	Seats (Total: 19)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

COMM230 **Argumentation and Debate**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

A study of the fundamental principles of reasoning, analysis, and evidence preparation of debate briefs and presentation of standard academic debate.

WB21	Darrian Carroll	Seats (Total: 24)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

COMM250 **Introduction to Communication Inquiry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An introduction to the field of communication. Definitions, models, and contexts of communication; rhetorical theory and rhetorical criticism of discourse.

WB11	Susan Hubbard	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

COMM288 **Communication Internship**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.

I101	Julie Gowin **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 50)
I102	Julie Gowin **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 75)
I201	Julie Gowin **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 50)

COMM324 **Communication and Gender**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DSHU, DVUP

The creation of images of male and female, and masculine and feminine, through communication, the differences in male and female communication behaviors and styles, and the implications of those images and styles for male-female transactions.

WB11	Skye De Saint Felix **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE
WB21	Alyson Farzad **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE

COMM330 **Argumentation and Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.

WB21	Jade Olson **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE

COMM331 **News Writing and Reporting for Public Relations**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM201; and must have completed or be concurrently enrolled in JOUR181. Restriction: Must be in Communication program; and (sophomore standing; or junior standing). Or permission of ARHU-Communication department. Credit only granted for: JOUR201, COMM231, or COMM331. Formerly: COMM231.

Writing and researching news and information media for public relations; laboratory in news-gathering tools and writing techniques for public relations.

0101	Vijaya Bohlmann	Seats (Total: 18)
	Meets May 28, 2019 - July 5, 2019	
	MW 9:00am - 12:25pm	PLS 1129

COMM332 **News Editing for Public Relations**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in COMM331; or students who have taken courses with comparable content may contact the department. And permission of ARHU-Communication department. Restriction: Must be in Communication program. Credit only granted for: JOUR202, COMM232, or COMM332. Formerly: COMM232.

Copy editing, graphic principles and processes, news and information technologies for public relations.

0201	Mollie Kaufer	Seats (Total: 18)
	Meets July 8, 2019 - August 16, 2019	
	MW 9:00am - 12:20pm	PLS 1129

COMM360 **The Rhetoric of Black America**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit , D

An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.

WB11	Naette Lee	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

COMM369B **Special Topics in Study Abroad III; British Documentary Tradition**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM369D **Special Topics in Study Abroad III; Digital Media in London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM369O **Special Topics in Study Abroad III; Organizational Communication in Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM371 **Communication and Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program. Credit only granted for: COMM371 or COMM398V. Formerly: COMM398V.

A basic introduction to communication in the digital age. Through class lectures, assignments and projects, students will learn to effectively use new media for the purpose of strategic message creation and management used in the field of communication. Students will apply the basics of visual layout skills and the principles of visual design to create messages using words and images.

WB21	Allison Chatham	Seats (Total: 35)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

COMM386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.

Supervised internship experience with communication professionals. Relation of academic training to professional experience.

01Z1	Leah Waks **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
02Z1	Leah Waks **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
I101	Julie Gowin **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 75)
I102	Julie Gowin **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 75)
I202	Julie Gowin **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 75)

COMM388 **Communication Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Supervised professional-level practice in communication.

Contact department for information to register for this course.

COMM398I **Selected Topics in Communication; Popular Culture, Public Engagement and Social Media**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

This interdisciplinary course focuses on how to integrate popular culture into public engagement on social media. It integrates theories from critical cultural studies, public relations and social media studies.

WB21	Sumin Fang **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE

COMM398X **Selected Topics in Communication; The Rhetoric of Food Activism**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Students will explore the connections between food, culture, and communication particularly surrounding efforts to build communities and promote social change. Students will engage theories of race, class, gender, citizenship, and social change in the study of historical and contemporary instances of food activism.

WB11	Lauren Hunter	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

COMM399 **Honors Thesis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

COMM400 **Research Methods in Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250; and must have an introductory course in statistics. Restriction: Must be in Communication program.

Philosophy of scientific method; role of theory; research ethics; empirical research methods (measurement, sampling, design, analysis).

0201	Savreen Hundal	Seats (Total: 35)
	Meets July 8, 2019 - August 16, 2019	
	MW 1:00pm - 4:20pm	TYD 1114

COMM401 **Interpreting Strategic Discourse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Principles and approaches for practical analysis of discourse designed to shape audience opinion.

WB11	Hagar Attia	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

COMM426 **Conflict Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: COMM425; and COMM250; and COMM402.

Role of communication in managing conflict processes.

WB21	Lauren Edelstein	Seats (Total: 35)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

COMM482 **Intercultural Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

The major variables of communication in an intercultural context: cultural, racial and national differences; stereotypes; values; cultural assumptions; and verbal and nonverbal channels.

Contact department for information to register for this course.

COMM488I **Communication Portfolio Project; Strategic Interviewing for the Career You Want**

Credits: 1 Grading Method: Regular

Preparation of the professional communication portfolio.

This course introduces students to advanced techniques in interviewing for job opportunities and career progression. This online course focuses on the dynamics of the interview process, the communication theories and best practices behind influence and persuasion, and the communication aptitudes and skills that distinguish top candidates.

WB11	Luke Capizzo	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
WB21	Samantha Stanley	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

COMM489 **Topical Research; Topical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individualized research projects conducted with a faculty sponsor.

Contact department for information to register for this course.

COMM618 **Professional Communication: Rhetoric & Style**

Credits: 3 Grading Method: Regular

Writing instruction in English for professional communicators with a focus on rhetoric, style, and grammar. Designed to teach English writing skills focused on message creation and organization, sentence structure, and language use, typologies of rhetorical genres, registers, and style, research skills, summary-writing skills, to editing skills, and vocabulary building in English writing.

Contact department for information to register for this course.

COMM669 **Professional Practice Forum in Translation: Practicum**

Credits: 1-3 Grading Method: Regular, Audit

Provides opportunities to complete real-world translation projects on campus and in the public service, legal, business, and political communities as translators, project managers and translators/reviewers working on group projects. Collaboration with participants in the interpreting practicum is also sought to prepare multilingual texts for practicum events and familiarize participants with conference translation. Complements Translation for Specific Markets, and practicum projects are included in course and career reflective practice portfolios. Requires independent study plan agreed with course instructor.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 1)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	
	Must be in Graduate Studies in Translation and Intepreting. For permission to enroll, contact oes@umd.edu.	

COMM798 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Contact department for information to register for this course.

COMM798F **Independent Study; English Fluency**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

0101	Shawn Parry-Giles, Mollie Kaufer	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

COMM798G **Independent Study; Editing in English Writing**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

0101	Shawn Parry-Giles, Mollie Kaufer	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

COMM798I **Independent Study; Spanish as a B Language**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

0201	Esperanza Pombo Lopez-Barron	Seats (Total: 4)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

COMM799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

COMM898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

COMM899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CPSP239J **Practicum: Internship**

Credits: 1-3 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

I101	Kalyani Chadha **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 15)
I201	Kalyani Chadha **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 15)

CPSP239P **Practicum: Internship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

I101	Kelly Brower **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
I201	Kelly Brower **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

CPSP379K **Advanced Practicum: Study Abroad; London: Cultural Capital**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced, supervised study-abroad experience.

Contact department for information to register for this course.

CPSP388T **Advanced Special Topics in College Park Scholars; Conservatoin and Indigenous People**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Contact department for information to register for this course.

DANC Dance Summer 2019

DANC200 **Introduction to Dance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

0301	Kristina Harris	Seats (Total: 12)
	Meets May 28, 2019 - June 14, 2019	
	MTuWTh 10:00am - 1:30pm	PAC 1908

DANC386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

0101	Instructor: TBA	Seats (Total: 1)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

DANC398 **Directed Studies in Dance**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

0101	Susan Miller	Seats (Total: 1)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

DANC689I **Special Topics in Dance**

Credits: 1-6 | Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

IH61	Crystal Davis	Seats (Total: 15)
	Meets May 14, 2019 - June 21, 2019	
	Contact instructor or department for details.	
	MCERT, Masters Certification Program, registration restricted to progra participants.	

DANC698 **Independent Study in Dance**

Credits: 1-3 Grading Method: Regular, Audit

Directed independent study in theoretical topics.

0201	Crystal Davis	Seats (Total: 1)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ECON Economics Summer 2019

ECON200 **Principles of Microeconomics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Credit only granted for: ECON200, AREC240, or AREC250. Additional information: It is recommended that students complete ECON200 before taking ECON201.

Introduces economic models used to analyze economic behavior by individuals and firms and consequent market outcomes. Applies conceptual analysis to several policy issues and surveys a variety of specific topics within the broad scope of microeconomics.

WB11	Ibraheem Catovic	Seats (Total: 60)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
WB21	Gentry Johnson	Seats (Total: 60)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ECON201 **Principles of Macroeconomics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.

An introduction to how market economies behave at the aggregate level. The determination of national income/output and the problems of unemployment inflation, will be examined, along with monetary and fiscal policy.

WB11	Seula Kim **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 60) ONLINE
WB21	Heehyun Lim **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 60) ONLINE

ECON230 **Applied Economic Statistics**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH113 or higher; or 1 course with a minimum grade of C- from (MATH107, MATH110). And minimum grade of C- in ECON200 and ECON201. Recommended: Students should already have basic familiarity with Microsoft Excel or similar spreadsheet software. Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course to develop understanding of statistical concepts used in applied economics. Students will acquire skills needed to calculate and interpret statistical concepts, including descriptive statistics, probability, discrete and continuous distributions, sampling, point and interval estimations, hypothesis testing, basic analysis of variance, and simple linear regression models. Students will apply these concepts to data using both handheld calculators and spreadsheets(Excel), and students will be introduced to an econometric software package such as SPSS or SAS or R.

WB11	Matthew Summers **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 60) ONLINE

ECON305 **Intermediate Macroeconomic Theory and Policy**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in ECON201 and ECON200. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON305 or ECON325.

Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.

WB11	Liang-Chieh Chiu **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 60) ONLINE
WB21	Wenbo Yu **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

ECON306 **Intermediate Microeconomic Theory & Policy**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: 1 course with a minimum grade of C- from (ECON200, AREC250); and minimum grade of C- in ECON201. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON306, ECON326, AREC489M, or AREC326.

Analysis of the theories of consumer behavior, producer behavior, different market structures, and various sources of inefficient outcomes. Analysis of microeconomic policies designed to improve market outcomes.

WB11	Prateik Dalmia **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 60) ONLINE
WB21	Panagiotis Dimitrellos **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 45) ONLINE

ECON325 **Intermediate Macroeconomic Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200, ECON201, and MATH141. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON305 or ECON325.

Analysis of macroeconomic behavior and policy with emphasis on theoretical rigor. Topics include the determinants of economic growth, unemployment, inflation, and international economic flows.

0101	Kenji Higa-Flores	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MW 6:00pm - 9:25pm	TYD 2109

ECON326 **Intermediate Microeconomic Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200, ECON201, and MATH141. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON306, ECON326, AREC326, or AREC489M.

Analysis of economic decision-making by individual buyers and sellers, and resulting market outcomes, with emphasis on theoretical rigor. The efficient properties of perfect competition are examined, followed by consideration of market power, externalities, and asymmetric information.

0201	Kai Chung Oue	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	TuTh 6:00pm - 9:10pm	TYD 1114

ECON330 **Money and Banking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201.

The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level.

0101	Yi Liu	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 6:00pm - 9:25pm	TYD 2111

ECON340 **International Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON340 or ECON441.

Introduces economic models of international trade and finance. Analyzes policies designed to promote and restrict international trade and to manage exchange rates and impact international capital flows.

This is a completely online course with both synchronous and asynchronous elements. Students are required to login at the time specified for the discussion section but additional work outside of this time is required as well.

WB11	Stefania Scandizzo	Seats (Total: 25)	
	Meets May 28, 2019 - July 5, 2019		
	Class time/details on ELMs	ONLINE	
	M 12:00pm - 1:30pm	ONLINE	Discussion
	Synchronous discussions will meet online on June 3rd, June 17th, and July 1st.		
WB21	Dheeraj Chaudhary	Seats (Total: 25)	
	Meets July 8, 2019 - August 16, 2019		
	Class time/details on ELMs	ONLINE	
	M 12:00pm - 1:30pm	ONLINE	Discussion
	Synchronous discussions will meet online on July 15th, July 29th, and August 12th.		

ECON386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Prerequisite: ECON201 and ECON200. Restriction: Permission of BSOS-Economics department; and must be in a major within the BSOS-Economics department; and minimum cumulative GPA of 2.5; and junior standing or higher.

See Department Advising Office for course eligibility, course requirements, and application information.

Contact department for information to register for this course.

ECON399 **Independent Study in Economics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Integrated readings and independent study under direction and supervision of a faculty member. Contact department for additional information.

Prerequisite: six hours of upper division economics courses.

Contact department for information to register for this course.

ECON414 **Game Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT400). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: CMSC474, ECON414, GVPT399A or GVPT390.

Studies the competitive and cooperative behavior that results when several parties find that their individual outcomes are jointly determined. Students will learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.

0101	Elif Osun **Meets May 28, 2019 - July 5, 2019** MW 6:00pm - 9:25pm	Seats (Total: 40) TYD 2106
0201	Nebahat Erturk **Meets July 8, 2019 - August 16, 2019** TuTh 6:00pm - 9:10pm	Seats (Total: 40) TYD 2111

ECON418L **Economic Development of Selected Areas; Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Economic and institutional characteristics of a specific geographic area are identified and discussed, and alternate strategies and policies for development are analyzed.

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts Program. Using examples from different historical and geographic contexts, students will analyze both the diversity and the commonalities of economic outcomes in Latin America, with an emphasis on institutional patterns. The class analyzes the divergence between North America and Latin America since the 1700s; surveys Latin America's economic history; reviews the region's recent economic experience with macroeconomic crises and their interaction with the political sphere; and explores current topics in the region's economic development, like the war on drugs and the rise of leftist policies.

WB11	Mateo Uribe-Castro **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 25) ONLINE

ECON418M **Economic Development of Selected Areas; Middle East**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Economic and institutional characteristics of a specific geographic area are identified and discussed, and alternate strategies and policies for development are analyzed.

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326) and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts Program. Analyzes patterns of economic and institutional development in the Middle East; assesses the general trends in economic growth, investment, and institutional changes; and examines specific issues such as population and human development, economics nd politics of oil and trade, the structure of state and its role in economic development, financial markets and Islamic banking, and business environment.

WB11	Hossein Abbasi	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

ECON422 **Econometrics I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON325, ECON326); and 1 course with a minimum grade of C- from (STAT400, ECON321). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON422, ECON424, AREC422, or AREC489F.

Emphasizes the interaction between economic problems and the assumption employed in statistical theory. Formulation, estimation, and testing of economic models, including single variable and multiple variable regression techniques, theory of identification, and issues relating to inference.

0101	Xue Song	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MW 6:00pm - 9:25pm	TYD 2111

ECON423 **Econometrics II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON422. Restriction: Must be in Economics Bachelor of Science program.

Interaction between economic problems and specification and estimation of econometric models. Topics include issues of autocorrelation, heteroscedasticity, functional form, simultaneous equation models, qualitative choice models, and other computational methods.

0201	Seth Murray	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	MW 6:00pm - 9:10pm	TYD 2102

ECON426 **Economics of Cost-Benefit Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Study of how to use cost benefit analysis and other similar tools of applied microeconomics to conduct policy analyses. Cost-benefit analysis is an empirical method of identifying an optimal choice from a set of policy alternatives, where optimal is defined in terms of economic efficiency. Real world examples are addressed, so that students understand limitations of the methods and also interactions of economic analysis with political and administrative processes.

0201	Olga Fetisova-Canas	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	MW 6:00pm - 9:10pm	TYD 2111

ECON434 **The Economics of Information and Uncertainty**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT400). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: ECON498U or ECON434. Formerly: ECON498U.

How do rational agents make decisions when faced with uncertainty? How do markets and other institutions deal with risks? How do markets behave when some actors are better informed than others? What incentives influence whether economic decision-makers hide or reveal information? Topics include the value of information, the purchase of warranties, agency problems in management, adverse selection and moral hazard in insurance, and signaling in education.

WB21	Richard Stahnke	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ECON455 **Economics of Education Policy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and minimum grade of C- in ECON424. Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON468E or ECON455. Formerly: ECON468E.

Examines the role that government plays in providing and financing education. Analyzes why people invest in education. Considers the effects of education on long-term social and economic outcomes, the behavior of institutions that produce education, and how to design and implement public policies affecting the level and distribution of educational resources. Uses microeconomic models and empirical findings to analyze current issues in education policy.

0201	Claire Hou	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	MW 6:00pm - 9:10pm	TYD 1114

ECON460 **Industrial Organization**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program.

Examines different theoretical models of firm behavior in markets with varying amounts of market power. Relates theory to specific industries and examines how market structure evolves over time.

0101	Erika Domotor	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MW 1:00pm - 4:25pm	TYD 2111

ECON642 **Topics in Applied Macroeconomics**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department.

Focus is on applied macroeconomic models used by federal agencies to explain and predict economic behavior. Course emphasizes macroeconomic data: NIPA accounts, GDP, construction and application of CPI, labor force data and economic indicators. Students will also study a selected set of current macroeconomic topics including models of economic growth, economic fluctuations, monetary policy, inflation and financial markets.

PR01	Kerk Phillips	Seats (Total: 18)	
	Meets May 28, 2019 - August 16, 2019		
	M 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Applied Economics-WDC Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. This course meets at 1400 16th Street NW, Washington DC.		
PRCM	Kerk Phillips	Seats (Total: 5)	
	Meets May 28, 2019 - August 16, 2019		
	M 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	For permission to enroll, contact oes@umd.edu. Part of the Applied Economics-WDC Program. This course meets at 1400 16th Street NW, Washington DC.		

ECON644 **Empirical Analysis II: Introduction to Economic Models**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON643.

An introduction to econometric methods with applications to public policy analysis. Primary focus on application and interpretation of multiple regression analysis.

PR01	Maksim Belenkiy	Seats (Total: 19)	
	Meets May 28, 2019 - August 16, 2019		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Applied Economics-WDC Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. This course meets at 1400 16th Street NW, Washington DC.		
PRCM	Maksim Belenkiy	Seats (Total: 5)	
	Meets May 28, 2019 - August 16, 2019		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	For permission to enroll, contact oes@umd.edu. Part of the Applied Economics-WDC Program. This course meets at 1400 16th Street NW, Washington DC.		

ECON671 **Economics of Health Care**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON645. Credit only granted for: ECON671 or ECON565. Formerly: ECON565.

An examination of the structure, conduct and performance of the health care market, including a study of physician services, the pharmaceutical industry, the hospital market and health insurance. Extensive use of quantitative and analytic economic tools with special emphasis on regulatory response to market imperfections.

PR01	Nathan Petek	Seats (Total: 18)	
	Meets May 28, 2019 - August 16, 2019		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Applied Economics-WDC Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. This course meets at 1400 16th Street NW, Washington DC.		
PRCM	Nathan Petek	Seats (Total: 7)	
	Meets May 28, 2019 - August 16, 2019		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	For permission to enroll, contact oes@umd.edu. Part of the Applied Economics-WDC Program. This course meets at 1400 16th Street NW, Washington DC.		

ECON672 **Program Analysis and Evaluation**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON641 and ECON645.

Students study the tools used to evaluate the effectiveness of public policies. All evaluations have weaknesses, and some have more weaknesses than others. You will learn how to distinguish high from low quality evaluations. We will discuss the basic economics and econometrics of program evaluation, focusing on the application of methods used for causal inference and cost-benefit analyses in public policy contexts. We will examine published evaluation research with the intent of showing how the research does or does not lead to clear conclusions regarding program performance.

PR01	Laura Kawano	Seats (Total: 24)	
	Meets May 28, 2019 - August 16, 2019		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Applied Economics-WDC Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. This course meets at 1400 16th Street NW, Washington DC.		
PRCM	Laura Kawano	Seats (Total: 3)	
	Meets May 28, 2019 - August 16, 2019		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	For permission to enroll, contact oes@umd.edu. Part of the Applied Economics-WDC Program. This course meets at 1400 16th Street NW, Washington DC.		

ECON684 **Applied Time Series Analysis and Forecasting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON642; and ECON645. Restriction: Must be in M.Prof.Studies: Applied Economics program.

This course builds on the brief introduction to time series econometrics offered in ECON 645. Students will learn the theory of stationary processes and how it applies to econometric techniques for estimation and forecasting based on time series data. The techniques will be applied in macroeconomic, financial and business applications.

PR01	Diego Vilan	Seats (Total: 23)	
	Meets May 28, 2019 - August 16, 2019		
	M 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Applied Economics-WDC Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. This course meets at 1400 16th Street NW, Washington DC.		
PRCM	Diego Vilan	Seats (Total: 6)	
	Meets May 28, 2019 - August 16, 2019		
	M 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	For permission to enroll, contact oes@umd.edu. Part of the Applied Economics-WDC Program. This course meets at 1400 16th Street NW, Washington DC.		

ECON698 **Selected Topics in Economics**

Credits: 3 Grading Method: Regular, Audit

0142	John Shea	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

ECON799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ECON898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ECON899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDCP Education Counseling and Personnel Services Summer 2019

EDCP108E **College and Career Advancement: Concepts and Skills**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

Restricted to Academic Achievement Program Students.

CP02	Tilahun Beyene	Seats (Total: 130)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

EDCP298Z **Special Problems in Counseling and Personnel Services; British Life and Society in a Cross-Cultural Context**

Credits: 3 Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and sophomore standing or higher.

Contact department for information to register for this course.

EDCP498 **Special Problems in Counseling and Personnel Services**

Credits: 1-3 Grading Method: Regular

Available only to major students who have formal plans for individual study of approved problems.

Contact department for information to register for this course.

EDCP611 **Career Development Theory and Programs**

Credits: 3 Grading Method: Regular, Audit

Research and theory related to career and educational decisions; programs of related information and other activities in career decision.

HY11	Marja Humphrey	Seats (Total: 20)
	Meets June 17, 2019 - June 28, 2019	
	MTuWTh 10:00am - 4:00pm	ASY 3203
	Class time/details on ELMs	ONLINE

EDCP635 **School Consultation I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the School Counseling program; or must be in the School Psychology program; or permission of instructor.

Theory and practice of consultation services in the school setting. Understanding of school culture. Introduction to problem solving model of case consultation for assessment and remediation of learning and behavior problems in the classroom. Practicum experience.

0201	Ileana Gonzalez **Meets July 8, 2019 - July 31, 2019** MTuW 11:00am - 2:30pm	Seats (Total: 20) ASY 3207

EDCP668 **Special Topics in Rehabilitation**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

EDCP717 **Evaluation of Research in Counseling**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Research on process and outcome in counseling. A review of research and appropriate research methodologies.

0601	Cixin Wang **Meets July 29, 2019 - August 16, 2019** MTuWTh 9:00am - 12:30pm	Seats (Total: 10) JMZ 1124

EDCP789 **Advanced Topics in Counseling and Personnel Services**

Credits: 1-6 Grading Method: Regular, Audit

0124	Hedwig Teglasi **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0140	Dennis Kivlighan **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0224	Hedwig Teglasi **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 4)
0240	Dennis Kivlighan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

I102	Matthew Miller **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 20)
I140	Dennis Kivlighan **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
I202	Matthew Miller **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I240	Dennis Kivlighan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

EDCP789E **Advanced Topics in Counseling and Personnel Services; Social and Cognitive Foundations of Counseling and School Psychology**

Credits: 1-6 Grading Method: Regular, Audit

0101	Mary Ann Hoffman **Meets May 28, 2019 - June 27, 2019** Contact instructor or department for details. Tu 11:30am - 3:30pm Th 10:00am - 2:00pm	Seats (Total: 10) SQH 1125 SQH 1125	 Discussion Discussion

EDCP789F **Advanced Topics in Counseling and Personnel Services; History of Psychological Science**

Credits: 3 Grading Method: Regular, Audit

0101	Matthew Miller **Meets May 28, 2019 - July 5, 2019** MW 10:00am - 1:30pm	Seats (Total: 20) ASY 3215

EDCP789R **Advanced Topics in Counseling and Personnel Services; College Teaching Seminar**

Credits: 1-3 Grading Method: Regular

0201	Ryan Sappington	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	TuTh 12:30pm - 3:30pm	ARC 1105

EDCP798 **Special Problems in Counseling and Personnel Services**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Contact department for information to register for this course.

EDCP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDCP888 **Apprenticeship in Counseling and Personnel Services**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCP888A **Apprenticeship in Counseling and Personnel Services; College Student Personnel**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Restricted to CSP students.

0101	Marsha Guenzler-Stevens, Kristan Skendall	Seats (Total: 17)
	Meets May 28, 2019 - August 16, 2019	
	Th 2:00pm - 4:45pm Contact instructor or department for details.	TWS 1320

EDCP889 **Internship in Counseling and Personnel Services**

Credits: 1-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EDCP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDHD Education, Human Development Summer 2019

EDHD306 **Research Methods in Human Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Addresses the scientific concepts and principles central to the study of human behavior and development. Students will learn about basic research methods in studying human behavior in developmental context and will participate in experiential activities, such as conducting observations and collecting self-report data. Major themes: goals of developmental research, fundamental research designs, types of measurement, elements of good scientific writing, and ethical issues in the study of human development.

WB11	Anisha Singh **Meets May 28, 2019 - June 28, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB21	Yuting Sun **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

EDHD310 **Your Brain on Education: The Neuroscience of Learning and Development**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

Prerequisite: PSYC100.

Investigation linking research in the brain science of learning and development, including the neural basis of academic skills, to achievement, disability, and broader applications to classroom learning. This course will focus on areas of education including language (spoken and written), conceptual change, numerical/quantitative processing, and social cognition as well as burgeoning areas of neuroscientific research in general cognitive processes such as attention, memory, and executive processing. These topics will be discussed with respect to typical and atypical development with some focus on developmental disabilities including autism, specific language impairment, reading and math impairment, and attention deficit disorders among others. This course will focus on both the theoretical perspectives and pragmatic issues of how evidence regarding brain development can or may be translated into useful or misleading information for educators, professionals, and parents/guardians of our children.

WB31	Donald Bolger **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB41	Donald Bolger **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

EDHD320 **Human Development Through the Life Span**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS

Central concepts related to parameters of human development, individual and social, which arise throughout the life span. Continuity and change within the developing individual.

WB11	Susan Klauda **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB21	Olga Walker **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

EDHD400 **Introduction to Gerontology**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS

Multidisciplinary survey of the processes of aging. Physiological changes, cultural forces, and self-processes that bear on quality of life in later years. Field study of programs, institutions for elderly, individual elders, their families and care providers.

WB11	Megan Hurley	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

EDHD402 **Social Development**

Credits: 3 | Grading Method: Regular

Recommended: EDHD411.

Social Development. Critical concepts and ideas of the study of child and adolescent social development. Focus on changes in interpersonal relationships, emotions, achievement-related behavior and competence, and functioning within the broader social context.

WB21	Olga Walker	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

EDHD411 **Child Growth and Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.

WB11	Nicole Scalise	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

EDHD413 **Adolescent Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Adolescent development, including special problems encountered in contemporary culture. Observational component and individual case study.

Contact department for information to register for this course.

EDHD489 **Field Experiences in Education**

(Perm req)

Credits: 1-4 Grading Method: Regular

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHD498 **Special Problems in Education**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHD602 **Social Bases of Behavior**

Credits: 3 Grading Method: Regular

The social forces and expectations that influence behavior from infancy through old age and death. The effects of ethnicity, social learning values, attitudes, historical events and mass media on perception and behavior in societal interactions.

Contact department for information to register for this course.

EDHD798 **Laboratory in Human Development**

Credits: 1-6 Grading Method: Regular, Audit

Independent research supervised by an instructor in a research setting.

Contact department for information to register for this course.

EDHD799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for master's thesis.

Contact department for information to register for this course.

EDHD888 **Apprenticeship in Human Development Research**

Credits: 1-8 Grading Method: Regular, Audit

Apprenticeship in Human Development research.

Contact department for information to register for this course.

EDHD889 **Practicum in Human Development**

Credits: 3-8 Grading Method: Regular, Audit

Field experience in applied human development at a professional level o competence in a particular role with appropriate supervision.

Contact department for information to register for this course.

EDHD898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EDHD899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Registration required to 12-18 hours for a Ph.D. dissertation.

Contact department for information to register for this course.

EDHI Education Leadership, Higher Ed and International Ed Summer 2019

EDHI338P **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Germany: Propaganda and Graphic Design**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Contact department for information to register for this course.

EDHI488A **Special Topics in Education Policy and Administration; Education for Global Peace**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

WB11	Sachi Edwards	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

EDHI488G **Special Topics in Education Policy and Administration; Promise and Challeges in Girls' Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI488N **Special Topics in Education Policy and Administration; Innovation, Inclusion, and Disability Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI488V **Special Topics in Education Policy and Administration; Contemplative Education**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin	Seats (Total: 15)
	Meets June 10, 2019 - June 20, 2019	
	MWTh 4:00pm - 9:00pm	ASY 3221
	Contact instructor or department for details.	

EDHI489 **Field Experiences in Education**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHI672 **Modes of Inquiry in Education Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI672, EDPL672, or EDPS672. Formerly: EDPL672.

Introduction to modes of inquiry appropriate to research on issues and problems in education. Examination of qualitative, quantitative and mixed research methods and designs with a focus on related standards of quality.

This course contains a Blackboard/ELMS component.

0401	Steven Klees	Seats (Total: 20)
	Meets July 8, 2019 - July 26, 2019	
	MWTh 3:00pm - 7:15pm	TWS 1105

EDHI679 **Master's Seminar**

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDHI681 **Education for Global Peace**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI681, EDPL681, or EDPS681. Formerly: EDPL681.

This course will examine how education can address the threats of violence and wars. It prepares students to teach about peace, nonviolence, and conflict resolution, and also to analyze and implement changes in school and society to contribute to peace and non-violence.

WB11	Sachi Edwards	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

EDHI689 **Practicum In Educational Administration and Supervision**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.

0235	Alberto Cabrera Casillas	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

EDHI788 **Special Topics in Education Policy and Administration**

Credits: 1-3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788G **Special Topics in Education Policy and Administration; Promises and Challenges in Girls' Education**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788N **Special Topics in Education Policy and Administration; Innovation, Inclusion, and Disability Justice**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788P **Special Topics in Education Policy and Administration; Qualitative Research: Case Study Methods**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

WB21	Sachi Edwards	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

EDHI788T **Special Topics in Education Policy and Administration; International Education & Cultural Exchange: Policies & Practices**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

The class will meet off-site on Mondays with leaders in the International Education field. The course will survey key aspects of international education administration in a U.S. higher education setting through class meetingsand experiential learning centered around Washington, D.C. The course is designe d to introduce students to various arenas of the international education field with an emphasis on the internationalization efforts of American universities, current trends inthe field and the challenges involved in undertaking these exchanges. The focus of the experiential component this year will be participation in the NAFSA Annual Conference. Please no te that this aspect of the course will require several off-campus engagements in D.C. and requires an additional fee to cover registration. The instructor will work with interested students who haveconcerns about finances to best support their participation.

0101	Taylor Woodman	Seats (Total: 20)
	Meets May 28, 2019 - June 4, 2019	
	MTuWThF 8:00am - 5:00pm	SQH 1111

EDHI788V **Special Topics in Education Policy and Administration; Contemplative Education**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin	Seats (Total: 15)
	Meets June 10, 2019 - June 20, 2019	
	MWTh 4:00pm - 9:00pm Contact instructor or department for details.	ASY 3221

EDHI789 **Doctoral Practicum in Administration and Supervision**

Credits: 1-3 Grading Method: Sat-Fail

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

0101	Sharon Fries-Britt	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
0201	Sharon Fries-Britt	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

EDHI798 **Special Problems in Education**

Credits: 1-6 Grading Method: Regular, Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDHI888 **Apprenticeship in Education**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDHI889 **Internship in Education**

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDHI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDMS Measurement, Statistics, and Evaluation Summer 2019

EDMS451 **Introduction to Educational Statistics**

Credits: 3 | Grading Method: Regular, Audit | General Education: FSAR

Restriction: Sophomore standing or higher. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introduction to statistical reasoning; location and dispersion measures; computer applications; regression and correlation; formation of hypotheses tests; t-test; one-way analysis of variance; analysis of contingency tables.

WB11	Yi Feng **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 25) ONLINE
WB31	Monica Morell **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 25) ONLINE

EDMS645 **Quantitative Research Methods I**

Credits: 3 | Grading Method: Regular, Audit

Research design and statistical applications in educational research: data representation; descriptive statistics; estimation and hypothesis testing. Application of statistical computer packages is emphasized.

WB11	Gregory Hancock **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 25) ONLINE

EDMS798 **Special Problems in Education**

Credits: 1-6 | Grading Method: Regular, Audit

Master's, EDMS majors, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDMS799 **Master's Thesis Research**

Credits: 1-6 | Grading Method: Regular

Registration required to the extent of 6 credits.

Contact department for information to register for this course.

EDMS889 **Internship in Measurement and Statistics**

(Perm req)

Credits: 3-12 Grading Method: Regular

Provides internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDMS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EDMS899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Registration required to the extent of 12 credits.

Contact department for information to register for this course.

EDSP Education, Special Summer 2019

EDSP210 **Introduction to Special Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Restriction: Sophomore standing or lower. Credit only granted for: EDSP210 or EDSP470.

Characteristics and needs of individuals receiving special education an related services. Current issues and practices in special education.

WB11	Jerae Kelly **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB41	Leslie Page-Voth **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE

EDSP220 **Disability in Community: Access, Accommodation, and Adaptation**

Credits: 3 | Grading Method: Regular | General Education: DSSP, DVCC

Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.

EDSP 220 is a fully online course with offline readings, online assignments and quizzes, asynchronus discussions and wiki presentations. In addition to online coursework, the course requires a service-learning (10-40 hours during course time, site negotiated with professor, can include Alternative Breaks- Indianapolis experience).

WB11	Carolyn Fink	Seats (Total: 15)
	Meets May 28, 2019 - July 2, 2019	
	Class time/details on ELMs	ONLINE

EDSP376 **Fundamentals of Sign Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.

Contact department or instructor for details.

0101	Elizabeth Martinez	Seats (Total: 27)
	Meets May 28, 2019 - July 5, 2019	
	MW 5:00pm - 8:15pm	ASY 3215
	Contact instructor or department for details.	

EDSP470 **Introduction to Special Education**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVUP

Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210 or EDSP470.

Designed to give an understanding of the needs of all types of exceptional children.

Open to all students except undergraduate special education majors

WB11	Jerae Kelly **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE	
WB41	Leslie Page-Voth **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE	

EDSP476 **Communicating with Sign Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDSP376. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Intermediate level receptive/expressive skills in American Sign Language. Aspects of the culture, history, and research perspectives of the deaf community.

HY41	Michael Dunham **Meets July 8, 2019 - July 26, 2019** W 5:00pm - 8:15pm Class time/details on ELMs	Seats (Total: 27) SQH 2120 ONLINE	 Discussion

EDSP498 **Special Problems in Special Education**

Credits: 1-6 Grading Method: Regular

Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.

Contact department for information to register for this course.

EDSP604 **Education of Students with Autism Spectrum Disorder**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Jointly offered with EDSP404. Credit onl y granted for: EDSP404 or EDSP604.

Characteristics, needs, assessment, and educational methods for student diagnosed as autistic or having a pervasive development disorder.

Contact department for information to register for this course.

EDSP606 **Advanced Study in Inclusive Practices in The Schools**

Credits: 3 Grading Method: Regular, Audit

Jointly offered with EDSP450. Credit only granted for: EDSP450, EDSP60 , or EDSP788P. Formerly: EDSP788P.

Educational practices regarding inclusive education in the schools for students with and without disabilities.

PLT1	Barbara Gruber	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Student in the Graduate Certificate in "Special Education for General Education Teachers in Inclusive Classrooms" may enroll without permission. All other graduate students must contact oes@umd.edu to determine registration eligibility.	

EDSP611 **Teaching Students with Disabilities in Elementary Classrooms**

Credits: 2 Grading Method: Regular

Restriction: Permission of EDUC-Special Education department. Credit only granted for: EDSP608, EDSP611, EDSP401 or EDSP499F.

This course is designed for elementary education majors to prepare for teaching students with disabilities in elementary classrooms. The course examines the legal requirements for general education teachers in the public schools including best practices for participating in the Individual Education Program (IEP) team process, and understanding Response to Intervention (RTI) as a approach to the early identification and support of students with learning and behavior needs. Information is provided on the characteristics of students who have been identified as having high incidence disabilities (e.g., learning disabilities, attention deficit hyperactivity disorder, speech and language delays, emotional or behavioral disorders, and other health impairments). The course then provides information on Universal Design for Learning (UDL) principles, instructional suggestions to include students with disabilities in the general classroom, co-teaching and methods for integrating technology and assistive technology to benefit all students.

Contact department for information to register for this course.

EDSP613 **Behavior and Classroom Management in Special Education**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program; or permission of instructor. Jointly offered with EDSP413. Credit only granted for: EDSP413 or EDSP613.

Applied behavior analysis for assessment of behavior and learning environments. Behavior and classroom management strategies for students in special education.

PLT1	Jerae Kelly	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Student in the Graduate Certificate in "Special Education for General Education Teachers in Inclusive Classrooms" may enroll without permission. All other graduate students must contact oes@umd.edu to determine registration eligibility.	

EDSP670 **Single Subject Research Designs**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDSP600. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Design, application, and analysis of single subject research in special education classrooms across all disabilities.

Contact department for information to register for this course.

EDSP678A **Seminar in Special Education; Social-Communication Challenges and Strategies for Individuals with ASDs**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

EDSP682 **Advanced Literacy Approaches for At-Risk Adolescents**

Credits: 3 Grading Method: Regular, Audit

Jointly offered with EDSP482. Credit only granted for: EDSP482, EDSP48 R, EDSP682, or EDSP788R. Formerly: EDSP788R.

Approaches to teaching reading in the content areas for secondary students with disabilities.

Contact department for information to register for this course.

EDSP798 **Special Problems in Special Education**

(Perm req)

Credits: 1-6 Grading Method: Regular

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Contact department for information to register for this course.

EDSP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDSP888 **Apprenticeship in Special Education**

Credits: 1-8 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888A **Apprenticeship in Special Education; Apprenticeship in College Teaching**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

0104	Joan Lieber **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0108	Frances Kohl **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0109	Peter Leone **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0116	Paula Beckman **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0117	Rebecca Silverman **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

0118	Susan De La Paz **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0120	Margaret McLaughlin **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0121	Debra Neubert **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0122	Philip Burke **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0124	Leslie Page-Voth **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0125	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0127	Jade Wexler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0204	Joan Lieber **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0208	Frances Kohl **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0209	Peter Leone **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0210	Leslie Page-Voth **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0216	Paula Beckman **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0217	Rebecca Silverman **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0218	Susan De La Paz **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0220	Margaret McLaughlin **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0221	Debra Neubert **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0222	Philip Burke **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0225	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0227	Jade Wexler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

EDSP889 **Internship in Special Education**

(Perm req)

Credits: 3-8 Grading Method: Regular

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EDSP899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.

Contact department for information to register for this course.

ENAE Engineering, Aerospace Summer 2019

ENAE202 **Computing Fundamentals for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Aerospace Engineering department. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

0201	Robert Sanner	Seats (Total: 25)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWF 12:30pm - 1:50pm	EGR 3102	
	Th 12:00pm - 2:00pm	KEB 2107	Lab

ENAE283 **Introduction to Aerospace Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

0101	Andrew Becnel	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 4:30pm - 5:50pm	CSI 2117

ENAE311 **Aerodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

0201	Jarred Young	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	MWF 2:00pm - 4:15pm	JMP 2121

ENAE398H **Honors Research Project**

Credits: 1-3 Grading Method: Regular

Planned sequence of steps in aerospace honors research in which student take three (3) consecutive semesters of this course in partial fulfillment of aerospace engineering honors program requirements. The first semester consists of a series of seminars and meetings with faculty mentors on honors research; two semesters consist of undergraduate honors research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference.

0101	Sung Lee	Seats (Total: 2)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	
0102	Raymond Sedwick	Seats (Total: 2)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
0201	Raymond Sedwick	Seats (Total: 2)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ENAE423 **Vibration and Aeroelasticity**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

0201	Sung Lee	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 4:30pm - 5:50pm	EGR 0135

ENAE441 **Space Navigation and Guidance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE404 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of navigation. Celestial, radio, and inertial navigation schemes. Navigational and guidance requirements for orbital, planetary, and atmospheric entry missions. Fundamentals of communications and information theory. Link budgets, antennas and telemetry systems.

0101	Matthew Marcus	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 6:00pm - 7:20pm	EGR 3102

ENAE499 **Elective Research; Individual Instruction**

(Perm req)

Credits: 3 Grading Method: Regular

Undergraduate research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference or competition.

Contact department for information to register for this course.

ENAE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENAE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENAE899 **Doctoral Dissertation Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENCE Engineering, Civil Summer 2019

ENCE201 **Engineering Information Processing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220 and MATH241; and permission of ENGR-Civil & Environmental Engineering department. Corequisite: MATH246. Credit only granted for: ENCE201 or ENCE203.

Exploration of algorithms for solving problems in several important areas of numerical computing: roots of equations; matrix algebra and the systems of linear equations; function approximation, numerical differentiation and integration; and ordinary differential equations. Issues of solution accuracy, robustness, and efficiency are also considered. Numerical techniques are presented in the context of engineering applications, and example problems are solved using a variety of computer-based tools (primarily MATLAB).

WB11	Peter Chang	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	MTh 7:30pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ENCE215 **Engineering for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM135; and permission of ENGR-Civil & Environmental Engineering department.

Engineers have a key role to play in planning, designing, building, and ensuring a sustainable future. In this class, a problem-based approach is used to examine fundamentally-based analyses and approaches for engineering as sustainable society, with a focus on sustainable use of energy and materials, sustainable infrastructure solutions, atmospheric sustainability and sustainable water supply, and human population growth and resource consumption and its implications for sustainability.

WB21	Natasha Almeida e Andrade	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Weekly video conference on Thursdays from 7:30pm-8:30pm.	

ENCE320 **Introduction to Project Management**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering or in the Project Management Minor. Credit only granted for: ENCE320 or ENCE325.

Learn the fundamentals of project management and the analytical skills for the management side of engineering projects.Topics include economic analysis, project screening and selection, organizational and project structure, scheduling, budgeting, resource management, life cycle costing, and project control.

WB11	Scott MacRae	Seats (Total: 36)
	Meets May 28, 2019 - August 16, 2019	
	M 8:00pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ENCE360 **Analysis of Civil Engineering Systems**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE201 and MATH140; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to systems approach and systems analysis in civil and environmental engineering. Introduction to systems analysis tools that facilitate engineering management decision making including optimization and computer simulation. Introduction to linear and nonlinear mathematical optimization including linear and integer programming, elementary nonlinear programming and dynamic programming.

Contact department for information to register for this course.

ENCE422 **Project Cost Accounting and Economics**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn: the fundamentals of accounting; project cost accounting principles as they apply to project management; project cost accounting; and the fundamentals of engineering economics.Topics include: project feasibility analysis; reading and analyzing financial statements; cash management; cash flow analysis; depreciation and taxes; and impact on profitability; the principles of activity based costing; net present value analysis; the framework for project performance measurement, cost performance indices, and earned value analysis.

WB11	Qingbin Cui	Seats (Total: 30)	
	Meets May 28, 2019 - July 5, 2019		
	MTh 7:00pm - 8:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	

ENCE424 **Communication for Project Managers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.

WB11	Shana Webster-Trotman	Seats (Total: 30)	
	Meets May 28, 2019 - August 16, 2019		
	Class time/details on ELMs	ONLINE	
	W 8:10pm - 9:10pm	ONLINE	Discussion

ENCE489 **Special Problems in Civil Engineering**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489C **Special Problems in Civil Engineering; Sustainability and Smart Cities**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489G **Special Problems in Civil Engineering; Sustainability and Infrastructure**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

SAGG	Instructor: TBA	Seats (Total: 1)
	Meets June 1, 2019 - June 13, 2019	
	Contact instructor or department for details.	

ENCE489I **Special Problems in Civil Engineering; Sustainable Green Infrastructure for the Urban Environment: Italy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE623 **Introduction to Advanced Scheduling**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENCE423 or ENCE662; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE623 or ENCE688S.

A Combination of lecture and hands-on use of software to develop advanced knowledge and skills necessary to master advanced scheduling techniques for project management and control will be used. No software purchase is necessary.

0101	Kenneth O'Connell	Seats (Total: 25)
	Meets May 28, 2019 - August 16, 2019	
	Tu 4:30pm - 7:40pm	JMP 2121

PM01	Kenneth O'Connell **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs *Weekly video conference on Wednesdays from 5pm-7pm.*	Seats (Total: 25) ONLINE	
SM01	Kenneth O'Connell **Meets May 28, 2019 - August 16, 2019** Tu 4:30pm - 7:40pm	Seats (Total: 5) Location: TBA	

ENCE625 **Project Administration**

Credits: 3 Grading Method: Regular, Audit

The principles of project administration procedures from the viewpoint of a resident project manager or project engineer specifically addressing their responsibilities in the engineering, design, or construction industries are examined. The course is suitable for students, engineering and design professionals, project managers, experienced contract administrators, and owners interested in the special administrative problems of construction.

Class has weekly videoconferencing.

0101	Neil Schulman **Meets May 28, 2019 - July 5, 2019** TuTh 12:50pm - 4:00pm	Seats (Total: 20) JMP 2217	
PM01	Neil Schulman **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs MW 7:00pm - 8:00pm	Seats (Total: 30) ONLINE ONLINE	 Discussion
SM01	Neil Schulman **Meets May 28, 2019 - July 5, 2019** TuTh 12:50pm - 4:00pm	Seats (Total: 5) Location: TBA	

ENCE661 **Project Cost Accounting and Finance**

Credits: 3 Grading Method: Regular, Audit

This course reviews the fundamentals of accounting; examines project cost accounting principles, applications, and impact on profitability; examines the principles of activity based costing; covers the elements involved in cash management; introduces the framework for how projects are financed and the potential impact financing has on the projects; and a framework for evaluating PC based systems and what resources are needed for an effective project cost system.

The first video conference on Monday will be from 8:00pm-9:00pm instead of 7:00pm-8:00pm, just for the first conference.

PM01	James Myers	Seats (Total: 30)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Weekly video conferences Monday 7pm-8pm and Tuesday 3:30pm-4:30pm.	

ENCE688 **Advanced Topics in Civil Engineering**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

Contact department for information to register for this course.

ENCE689 **Seminar**

Credits: 1-16 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENCE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENCE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENCE899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCH648 Special Problems in Chemical Engineering

Credits: 1-16 Grading Method: Regular, Audit

0105	Peter Kofinas **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0112	Jeffery Klauda **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0113	Chunsheng Wang **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0114	Ganesh Sriram **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0121	Raymond Adomaitis **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0203	Panagiotis Dimitrakopoulos **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0212	Jeffery Klauda **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0214	Ganesh Sriram **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I206	Mikhail Anisimov **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

ENCH648L Special Problems in Chemical Engineering; Photovoltaics: Solar Energy

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENCH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENCH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENCH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENEE Electrical & Computer Engineering Summer 2019

ENEE131 **Technology Choices**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE General Education: DSSP, SCIS

An exploration of the positive and negative effects of technology on society, via diverse criteria to assess the relative well being of individuals and society; an examination of how society can help shape the future of technology and the tools that can be used to make wise technology choices.

0101	Wesley Lawson	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 2:00pm - 3:20pm	AJC 2121

ENEE200 **Technology and Consequences: Engineering, Ethics, and Humanity**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSHU, SCIS

What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.

0101	Wesley Lawson	Seats (Total: 25)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 11:00am - 12:20pm	AJC 2121	

ENEE205 **Electric Circuits**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in PHYS260; and minimum grade of C- in PHYS261; and permission of ENGR-Electrical & Computer Engineering department. Corequisite: MATH246. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE204 or ENEE205. Formerly: ENEE204.

Design, analysis, simulation, construction and evaluation of electric circuits. Terminal Relationships. Kirchoff's laws. DC and AC steady state analysis. Node and mesh methods. Thevenin and Norton equivalent circuits. Transient behavior of first- and second-order circuits. Frequency response and transfer functions. Ideal op-amp circuits. Diode and transistor circuits.

0101	Wesley Lawson	Seats (Total: 12)	
	Meets May 28, 2019 - July 19, 2019		
	MTuWTh 12:30pm - 1:50pm	AJC 2121	
	TuTh 8:00am - 10:50am	AVW 1356	Lab

ENEE244 **Digital Logic Design**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CMSC132 or ENEE150; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Sophomore standing or higher; and must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

The design and analysis of combinational and synchronous sequential systems comprising digital logic gates and flip-flop memory devices; underlying tools such as switching and Boolean algebras and Karnaugh map simplification of gate networks; design and use of decoders, multiplexers, encoders, adders, registers, counters, sequence recognizers, programmable logic arrays (PLAs), read-only memories (ROMS, PROMS), and similar devices. Arbitrary radix conversion.

Engineering College only (04).

0101	Manoj Franklin	Seats (Total: 30)
	Meets May 28, 2019 - July 19, 2019	
	TuTh 3:30pm - 6:20pm	ITV 1100

ENEE303 **Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.

0101	Manoj Franklin	Seats (Total: 40)
	Meets May 28, 2019 - July 19, 2019	
	MTuWTh 12:30pm - 1:50pm	CSI 2107

ENEE313 **Introduction to Device Physics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE312 or ENEE313.

Basic physics of devices including fields in solids, crystal structure, properties of electrons and holes. Current flow in Si using drift-diffusion model. Properties of the pn junction. Properties of devices including BJTs, FETs and their physical characteristics.

0101	Danilo Romero	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 11:00am - 12:20pm	CSI 1122

ENEE322 **Signal and System Theory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH246; and minimum grade of C- in ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

0101	Danilo Romero	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 9:30am - 10:50am	CSI 1122

ENEE324 **Engineering Probability**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE322; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: BMGT231, STAT400 or ENEE324. Additional information: Electrical Engineering and Computer Engineering majors may not substitute STAT400 for ENEE324. These courses are not interchangeable, consult your program requirements or advisor for what is acceptable toward your program of study.

Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

0101	Manoj Franklin	Seats (Total: 40)
	Meets May 28, 2019 - July 19, 2019	
	MTuWTh 9:30am - 10:50am	CSI 2107

ENEE350 **Computer Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

ENEE majors (09090) only.

0101	Ankur Srivastava	Seats (Total: 30)
	Meets May 28, 2019 - July 19, 2019	
	MW 3:30pm - 6:20pm	CSI 2118

ENEE381 **Electromagnetic Wave Propagation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENEE380; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

The electromagnetic spectrum: Review of Maxwell's equations; the wave equation potentials, Poynting's theorem, relationship between circuit theory and fields; propagation of electromagnetic waves in homogeneous media and at interfaces; transmission line theory, waveguides, radiation and antennas.

0101	Wesley Lawson	Seats (Total: 30)
	Meets May 28, 2019 - July 19, 2019	
	TuTh 4:00pm - 6:50pm	AJC 2121

ENEE459V **Topics in Computer Engineering; Embedded Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prerequisites: ENEE350; ENEE244; ENEE150 or CMSC216 The first decade of 21st century was marked by the emergence of smart devices that are used in everyday life. Smart phones, smart cars, smart TV, smart thermostats, smart vacuum cleaners, to name just a few. These developments are powered in large part by the embedded systems. This course will provide students with the essential knowledge base that will enable them to tackle complex problems encountered in embedded systems design. In addition to the overview of associated hardware components and software methodologies and tools used in the development of modern embedded systems, and theory behind them, the course will include a a carefully selected collection of hands-on Lab exercises that would help students get a sense of how the presented theoretical concepts connect with the real-world embedded systems applications.

WB11	George Zaki	Seats (Total: 15)
	Meets May 28, 2019 - July 19, 2019	
	Class time/details on ELMs	ONLINE

ENEE488 **Independent Study in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity for independent study projects on advanced electrical and computer engineering topics. These projects typically involve academic investigations of technical themes that are not addressed in the established elective and special topics courses taught by the department on a regular basis. Study plans are tailored to students educational goals but are approved and supervised by faculty.

Contact department for information to register for this course.

ENEE498M **Topics in Electrical Engineering; Mathematical Methods of Electrical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in electrical engineering.

Prerequisites: Completion of MATH241 and MATH246 with a"C-" or better. Restriction: Permission of Electrical & Computer Engineering Department. The course provides fundamental understanding of applied mathematical techniques for electrical engineering applications. It is designed to expose electrical and computer engineering students to various problem-solving techniques and to enable them to apply the appropriate techniques to a wide assortment of electrical engineering problems. Computational methods using MATLAB is introduced in the course.

0101	Danilo Romero	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 2:00pm - 3:20pm	CSI 1122

ENEE499 **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-5 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE499L **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE499R **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE699 **Independent Studies in Electrical Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Supervised individual study or project, or supervised group study or project, at an advanced level, in electrical engineering.

Contact department for information to register for this course.

ENEE759V **Advanced Topics in Computer Engineering; Embedded Systems**

Credits: 3 Grading Method: Regular, Audit

Topics, as announced every semester, from the field of computer engineering and its applications.

Prerequisite: ENEE350 or equivalent course on Computer Architecture, ENEE244 or equivalent course on Digital Logic Design, ENEE150 or equivalent course on programming (preferably C). The first decade of 21st century was marked by the emergence of smart devices that are used in everyday life. Smart phones, smart cars, smart TVs, smart thermostats, smart vacuum cleaners, just to name a few. These devolopments are powered in large part by the embedded systems. This course will provide students with the essential knowledge base that will enable them to tackle complex problesm encountered in embedded systems design. In addition to the overview of associated hardware components and software methodologies and tools used in the development of modern embedded systems, and theory behind them, the course will include a carefully selected collection of hands-on Lab excercises that would help students get a sense of how the presented theoretical concepts connect with the real-world embedded systems applications.

WB11	George Zaki	Seats (Total: 15)
	Meets May 28, 2019 - July 19, 2019	
	Class time/details on ELMs	ONLINE

ENEE799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENEE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENES Engineering Science Summer 2019

ENES100 **Introduction to Engineering Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

YS41	David Lovell **Meets July 8, 2019 - July 26, 2019** MTuWThF 9:00am - 1:00pm *This section is part of Terp Young Scholars. Enrollment by permission only.*	Seats (Total: 26) JMP 1215
YS42	Peter Chang **Meets July 8, 2019 - July 26, 2019** MTuWThF 9:00am - 1:00pm *This section is part of Terp Young Scholars. Enrollment by permission only.*	Seats (Total: 19) JMP 1116

ENES102 **Mechanics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Jarred Young **Meets May 28, 2019 - July 5, 2019** MTuWTh 12:30pm - 2:50pm	Seats (Total: 50) EGR 1104
0201	Thomas Beigel **Meets July 8, 2019 - August 16, 2019** MTuWTh 12:00pm - 2:20pm	Seats (Total: 40) EGR 0108

ENES106 **Achieving Success in Mathematics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-A. James Clark School of Engineering.

An exploration of the skills and habits needed to successfully complete introductory mathematics courses.

Restricted to students in the Summer Bridge Program.

CP01	Ishfaaq Mohammed Imtiyas	Seats (Total: 20)
	Meets June 24, 2019 - July 26, 2019	
	MTuWThF 9:00am - 11:00am	EGR 3102

ENES107 **Achieving College Excellence**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-A. James Clark School of Engineering.

An exploration of the skills and habits needed to successfully complete the introductory chemistry course for engineering students. Course will also include strategies for a successful first year experience.

Restricted to students in the Summer Bridge Program.

CP01	Migdalia Maldonado, Kim Huynh	Seats (Total: 20)
	Meets June 24, 2019 - July 26, 2019	
	MTuWThF 1:50pm - 2:50pm	EGR 3114
	Permission is limited to students in the Summer Bridge Program.	

ENES140 **Discovering New Ventures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Additional information: This course may count as an elective for a student at the University of Maryland, depending on the student's specific degree program. It cannot be counted towards the requirements for the Smith School of Business Entrepreneurship Fellow Program.

Students explore dynamic company startup topics by working in teams to design a new venture. This multi-disciplinary course helps students to learn the basic business, strategy, and leadership skills needed to launch new ventures. Topics include learning how to assess the feasibility of a startup venture, as well as how to apply best practices for planning, launching, and managing new companies. Students discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunities, assess the skills and talents of successful entrepreneurs, and learn models that help them navigate uncertainty.

WB31	James Green	Seats (Total: 100)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

YS41	Cait von Schnetlage	Seats (Total: 18)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:00pm	TYD 2109
	This section is part of Terp Young Scholars. Enrollment by permission only. Email summer@umd.edu for further information.	

ENES220 **Mechanics II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.

Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.

0101	Thomas Beigel	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 12:30pm - 2:50pm	EGR 1108

ENES221 **Dynamics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

0201	Lina Castano	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	MTuWTh 12:00pm - 2:20pm	EGR 1104

ENES232 **Thermodynamics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE301, ENCH300, ENES232, ENME320, or ENME232. Formerly: ENME232 and ENME320.

Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.

0201	Jarred Young	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	MTuWTh 9:00am - 11:20am	EGR 1104

ENES269F **Topics in Grand Challenges for Engineering in a Global Context; A Global Perspective on Security: France**

Credits: 3 Grading Method: Regular General Education: DSNS, DVCC, SCIS

Special topics course that explores the grand engineering challenges facing the world from a technical, cultural, political, and economic perspective, as well as solutions developed through innovation and technology. Topics can include energy, environment, urban infrastructure, health, safety and security, and engineering the tools of discovery.

Contact department for information to register for this course.

ENES269G **Topics in Grand Challenges for Engineering in a Global Context; Grand Challenges for Engineering in a Global Context: Germany**

Credits: 3 Grading Method: Regular General Education: DSNS, DVCC, SCIS

Special topics course that explores the grand engineering challenges facing the world from a technical, cultural, political, and economic perspective, as well as solutions developed through innovation and technology. Topics can include energy, environment, urban infrastructure, health, safety and security, and engineering the tools of discovery.

Contact department for information to register for this course.

ENES317 **Introduction to Engineering Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: Permission of ENGR-A. James Clark School of Engineering.

Focus is placed on general leadership theories in addition to real-world applications of leadership in engineering education, industry, and government.

WB21	Natasha Chapman	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Please note; for Summer Term, restrictions will not apply.	

ENES458A **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Assessment**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Ghana

Contact department for information to register for this course.

ENES458C **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Monitoring**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES458I **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Implementation**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES460 **Fundamentals of Technology Start-Up Ventures**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES460, BMGT461 or HLMN470. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Fundamental aspects of creating, organizing, funding, managing, and growing a technology startup venture. This multidisciplinary course will draw on management, business, legal, financial, as well as technical, concepts. Students form teams and develop a business plan for a technology company, based on each team's own business idea and then present the plan to a panel of outside experts.

WB51	Cait von Schnetlage	Seats (Total: 75)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

ENES462 **Marketing High-Technology Products and Innovations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Examines the opportunities and challenges of marketing high-technology products in turbulent environments requiring rapid decision making with incomplete information. Explores how innovations are introduced at frequent intervals, research-and-development spending is vital, and there are high mortality rates for both products and businesses.

WB61	Olufunlola Koiki	Seats (Total: 75)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENES464 **International Entrepreneurship and Innovation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Focuses on the need for every entrepreneur and innovator to understand the global market in today's hypercompetitive world, and to appreciate how to compete effectively in domestic markets by managing international competitors, suppliers, and influences. Explore how the distinction between foreign and domestic markets is becoming less pronounced. Develop skills to identify and manage opportunities on a global basis.

WB41	Shyam Chidamber	Seats (Total: 50)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE
	Please note; for Summer Term, restrictions will not apply.	

ENES472 **International Business Cultures in Engineering and Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Prerequisite: Permission of ENGR-A. James Clark School of Engineering. Restriction: Sophomore standing or higher. Credit only granted for: ENES472, SLLC471, or SLLC473.

The goal is to provide students with an understanding of cultural aspects pertaining to global business and engineering and develop the cultural understanding, attitudes, and communication skills needed to function appropriately within an increasingly global and multicultural working environment.

WB11	Natasha Chapman	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Please note; for Summer Term, restrictions will not apply.	

ENES664 **Business Modeling and Customer Validation**

Credits: 3 Grading Method: Regular

Prerequisite: ENES662 and ENES663.

Focuses on how to create and deliver value for customers and extract value for the new venture. Develop business models that encompass the product or service, customers, and the economic engine to meet the venture's financial and growth objectives. Introduces a structured way to think about, analyze, and develop a sound business model that is customer validated.

Restricted to students in Techhology Entrepreneurship Program.

Click here for more course information.

PLM1	Daniel Gordon	Seats (Total: 50)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENES665 **Innovative Thinking**

Credits: 3 Grading Method: Regular

Prerequisite: ENES662 and ENES663.

Introduces students to new and powerful tools to boost their creative problem solving skills. Participants re-discover their communication and teaming skills. Students unlock their creativity potential, and explore win-win approaches to define and solve problems of different kinds. Students are also introduced to topics related to intellectual property.

Restricted to students in Techhology Entrepreneurship Program.

Click here for more course information.

PLM1	Frankie Abralind	Seats (Total: 50)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENES670 **Financial Management and New Venture Financing**

Credits: 3 Grading Method: Regular

Prerequisite: ENES666 and ENES667.

Provides the essential tools and skills to build a strong financial foundation for a new technology venture. Examines accounting principles as well as methods for keeping firm financial control of the venture. Discusses navigating the multitude of financial barriers that may block entrepreneurial success, as well as how to raise the right amount of capital at the right time from the right source.

Restricted to students in Techhology Entrepreneurship Program.

Click here for more course information.

PLM1	Michael Pratt	Seats (Total: 50)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENES671 **Legal Aspects of Entrepreneurship**

Credits: 3 Grading Method: Regular

Prerequisite: ENES666 and ENES667.

Explores critical legal and business issues entrepreneurs face as they build and launch a new venture. Examines real world scenarios, and addresses the legal issues at all of the important junctures along the path to success. Significant attention placed on new venture formation, intellectual property management, and financing arrangements.

Restricted to students in Techhology Entrepreneurship Program.

Click here for more course information.

PLM1	Wilson White	Seats (Total: 50)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENFP Engineering, Fire Protection Summer 2019

ENFP312 **Heat and Mass Transfer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENFP300. Restriction: Permission of ENGR-Fire Protection Engineering department.

Fundamentals of heat and mass transfer. Conduction, convection, and radiation modes of heat transfer. Diffusion concepts and evaporation phenomena. Problem solving techniques with application to fire problems.

0201	Fernando Raffan Montoya	Seats (Total: 20)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWTh 3:00pm - 5:00pm	EGR 3114	
	F 3:00pm - 5:00pm	EGR 3114	Discussion

ENFP429 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

For students who have definite plans for individual study of approved problems, or study of an advanced topic selected in conjunction with the faculty.

Contact department for information to register for this course.

ENFP625 **Advanced Fire Modeling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department.

Validity, utility, reliability of current computer models. Applications of models in risk assessment, underwriting, loss prediction, hazard analysis. Development and validation of specific application models.

EF01	Arnaud Trouve	Seats (Total: 40)
	Meets June 10, 2019 - August 30, 2019	
	Class time/details on ELMs	ONLINE
	OAEE permission required for this section.	

ENFP629 **Selected Topics**

Credits: 3-6 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Contact department for information to register for this course.

ENFP649 **Special Problems**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature to suit the special needs and background of students, or for individual students who have definite plans of individual study.

Contact department for information to register for this course.

ENFP662 **Performance Based Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENFP629E or ENFP662. Formerly: ENFP629E.

This on-line course demonstrates how fire science can be used to solve fire protection problems in the built environment and will provide an understanding of their performance-based design process, deterministic and risk-based analysis techniques, development of design fire scenarios, trial design development and analysis, and building lifecycle management.

EF01	Eric Rosenbaum, Morgan Hurley	Seats (Total: 40)
	Meets June 10, 2019 - August 30, 2019	
	Class time/details on ELMs	ONLINE
	OAEE permission required for this section.	

ENFP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Development and completion of Master's Thesis.

Contact department for information to register for this course.

ENGL English Summer 2019

ENGL101 Academic Writing

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

An introductory course in academic writing.

Click here for more course information.

0101	Jesse Brooks **Meets May 28, 2019 - July 5, 2019** MW 9:30am - 1:00pm	Seats (Total: 19) TWS 0201
0102	Derek Ellis **Meets June 17, 2019 - July 26, 2019** MTuWThF 11:15am - 12:35pm	Seats (Total: 19) TWS 1107
0201	Dominique Young **Meets July 8, 2019 - August 16, 2019** TuTh 1:00pm - 4:30pm	Seats (Total: 6) TWS 0207
WB11	Emily Lyons **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Sara Faradji **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Catherine Bayly **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB22	Nabila Hijazi	Seats (Total: 19)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENGL101A **Academic Writing**

Credits: 3 | Grading Method: Regular | General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Contact department for information to register for this course.

ENGL234 **African-American Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

An exploration of the stories black authors tell about themselves, their communities, and the nation as informed by time and place, gender, sexuality, and class. African American perspective themes such as art, childhood, sexuality, marriage, alienation and mortality, as well as representations of slavery, Reconstruction, racial violence and the Nadir, legalized racism and segregation, black patriotism and black ex-patriots, the optimism of integration, and the prospects of a post-racial America.

WB21	Keisha Allan	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENGL245 **Film Form and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Cross-listed with FILM245. Credit only granted for: ENGL245 or FILM245

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

WB21	Konstantinos Pozoukidis	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENGL269A **Special Topics in Study Abroad II; American Writers in Paris**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269I **Special Topics in Study Abroad II; James Joyce's Dublin: Creative Writing with The Dubliners: Ireland**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269R **Special Topics in Study Abroad II; Writing Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL294 **Persuasion and Cleverness in Social Media**

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Prerequisite: Must have satisfied Fundamental Studies Academic Writing requirement.

Exploration of various persuasive media encountered in daily life through the lens of rhetorical and critical theories. Principles of rhetoric and analysis of how persuasion functions across media. Invention of effective multimedia works appropriate to purpose, audience, and context. Concepts from cultural studies used to develop critical awareness about power and ideology and how they influence the way people produce and understand messages. By integration of technology, rhetoric, and cultural studies, students become more critically-rhetorically informed thinkers, authors, and audiences of arguments and culture in the digital age. Writing intensive course. No prior multimedia experience is expected.

WB11	Aqdas Aftab	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

ENGL348G **Literary Works by Women; Jane Austen: Novels, Films, Adaptations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D

The context, form, style and meaning of literary works by women.

WB11	Tita Chico	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Click here for more course information.	

ENGL359F **Special Topics in LGBTQ+ Literatures and Media; Lesbian, Gay, Bisexual, and Transgender Film and Video**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Selected study of a topic pertinent to literary and cultural expressions of LGBTQ+ identities, positionalities, and analytics through an exploration of literature, art, and/or media.

Also offered as LGBT327. Credit granted for LBGT327 or ENGL359F.

WB31	Anna Storti	Seats (Total: 30)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE
WB41	James Goodwin	Seats (Total: 30)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

ENGL369A **Special Topics in Study Abroad III; American Writers in Paris**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369J **Special Topics in Study Abroad III; Ireland: James Joyce's Dublin**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369K **Special Topics in Study Abroad III; Great Directors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369P **Special Topics in Study Abroad III; Politics and Science Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369R **Special Topics in Study Abroad III; Great Actors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL376 **The Speculative Imagination: Science Fiction on Page and Screen**

Credits: 3 Grading Method: Regular, Pass-Fail

Credit only granted for: ENGL379Y or ENGL376. Formerly: ENGL379Y.

Examines a global cross-section of science fiction in literature, film, television, comics, and other media. Studies the unique formal qualities of science fiction and traces its history from its origin in the eighteenth century to the present. Explores how the twenty-first century has brought new prominence to science fiction by creators of color, women creators, and queer creators, as well as intersections of these. Considers how science fiction addresses a range of phenomena--from environmental destruction to surveillance to imperialism and militarism. Students learn how to analyze and write about the formal and historical dimensions of the genre.

WB21	Andrew Ferguson	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENGL379N **Special Topics in Literature; Multimedia Shakespeares**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

WB11	Karen Nelson **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs *Click here for more course information.*	Seats (Total: 25) ONLINE

ENGL388P **Writing, Research, and Media Internships; Pre-professional Writing Skills Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Field work in English studies.

WB21	Karen Lewis **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs *Click here for more course information.*	Seats (Total: 20) ONLINE

ENGL391 **Advanced Composition**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

0107	Radford Skudrna **Meets May 28, 2019 - July 5, 2019** TuTh 6:00pm - 9:15pm	Seats (Total: 19) TWS 0224
0201	Kristofer Reed **Meets July 8, 2019 - August 16, 2019** MW 9:30am - 12:45pm	Seats (Total: 19) TWS 0224
WB11	Mark Forrester **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Kate Wilson **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL393 **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

0101	Dennis Winston **Meets May 28, 2019 - July 5, 2019** TuTh 9:30am - 12:45pm	Seats (Total: 19) TWS 0224
0206	Joseph Wappel **Meets July 8, 2019 - August 16, 2019** MW 6:00pm - 9:15pm	Seats (Total: 19) TWS 0224
WB11	Pamela Gerhardt **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Danuta Hinc **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	David Miles **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB14	Daniel Saalfeld **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB15	Michelle Von Euw **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Joshua Buursma **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB22	Kisa Lape **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB23	Peter Witte **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB24	Joseph Good **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB25	Amanda Allen **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB26	Roberto Leon **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB27	Andrew Delfino **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL394 **Business Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Intensive practice in the forms of written communication common in the business world-letters, memos, short reports, and proposals. Principles of rhetoric and effective style.

WB11	Karen Angeline **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Robert Lucci **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB13	John Macintosh **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB14	Pamela Orel **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Justin Lohr **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Nicole Cuffy **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB23	David Brookshire **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL395 **Writing for Health Professions**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Focus on accommodating technical material and empirical studies to lay audiences, and helping writers to achieve stylistic flexibility and correctness.

WB21	Joseph Angelella **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL403 **Shakespeare: The Early Works**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Close study of selected works from the first half of Shakespeare's career. Generic issues of early histories, comedies, tragedies. Language, theme, dramatic technique, sources, and early modern English social-historical context.

WB21	Kim Coles	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Click here for more course information.	

ENGL409C **Study Abroad Special Topics IV; Shakespeare's Italian Plays**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409M **Study Abroad Special Topics IV; Literature, Art and Architecture in London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409Y **Study Abroad Special Topics IV; Travel Writing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL429 **Independent Research in English**

(Perm req)

Credits: 1-6 Grading Method: Regular

An advanced independent research project for qualified students, supervised by an English faculty member, on a topic not ordinarily covered in available courses.

Contact department for information to register for this course.

ENGL433 **American Literature: 1914 to the Present, the Modern Period**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Modernism, Postmodernism. Writers such as Stevens, Stein, Ellison.

WB21	Blake Wilder	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Click here for more course information.	

ENGL679 **Professional and Career Mentoring for Master's Students**

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for MA and MFA students from a faculty member.

0108	Ralph Bauer	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
0266	Ralph Bauer	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ENGL699 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

ENGL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENGL879 **Professional Mentoring for Doctoral Students**

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for PhD students from a faculty member.

Contact department for information to register for this course.

ENGL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

0201	Instructor: TBA	Seats (Total: 1)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ENGL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENMA Engineering, Materials Summer 2019

ENMA300 **Introduction to Materials Engineering**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Materials Science & Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Restriction: Permission of ENGR-Mechanical Engineering department. Cross-listed with ENME382. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

WB21	Isabel Lloyd, Liyang Dai-Hattrick	Seats (Total: 45)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENMA499 **Senior Laboratory Project**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.

0101	Raymond Phaneuf	Seats (Total: 2)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

ENMA698 **Special Problems in Materials Science and Engineering**

Credits: 1-3 Grading Method: Regular, Audit

Individual, supervised study in materials science and engineering.

Contact department for information to register for this course.

ENMA797 **Independent Study**

Credits: 3 Grading Method: Regular, Audit

This course is designed to provide students with a directed independent study course in order to prepare the scholarly paper required for the master's degree without thesis degree option.

0101	Ichiro Takeuchi	Seats (Total: 2)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

ENMA799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENMA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENMA899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENME Engineering, Mechanical Summer 2019

ENME202 **Computing Fundamentals for Engineers**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

0201	Robert Sanner	Seats (Total: 25)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWF 12:30pm - 1:50pm	EGR 3102	
	Th 12:00pm - 2:00pm	KEB 2107	Lab

ENME331 **Fluid Mechanics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENES221. Credit only granted for: BIOE331 or ENME331.

Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments.

0102	Xinan Liu	Seats (Total: 36)	
	Meets May 28, 2019 - July 5, 2019		
	MW 12:30pm - 4:00pm	PHY 0405	

ENME332 **Transfer Processes**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331.

The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis.

0101	Amir Shooshtari	Seats (Total: 25)	
	Meets May 28, 2019 - July 5, 2019		
	TuTh 10:00am - 1:30pm	CHE 2118	

ENME361 **Vibration, Controls and Optimization I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220, ENES221, and MATH246; and (MATH206 or ENME202). Restriction: Must be in Engineering: Mechanical program.

Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Vincent Nguyen	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 9:00am - 12:30pm	EGR 1108

ENME382 **Introduction to Materials Engineering**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Mechanical Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Restriction: Permission of ENGR-Mechanical Engineering department. Cross-listed with ENMA300. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

WB21	Isabel Lloyd, Liyang Dai-Hattrick	Seats (Total: 45)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENME392 **Statistical Methods for Product and Processes Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241.

Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities.

Students have the option to meet in JMP2121.

HY11	David Bigio	Seats (Total: 34)	
	Meets May 28, 2019 - July 5, 2019		
	MW 11:00am - 1:00pm	JMP 2222	
	Class time/details on ELMs	ONLINE	Discussion

ENME400 **Machine Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.

0201	Chandrasekhar Thamire	Seats (Total: 40)	
	Meets July 8, 2019 - August 16, 2019		
	MW 4:00pm - 6:00pm	EGR 1108	
	Tu 4:00pm - 6:45pm	EGR 1108	
	Th 4:00pm - 6:00pm	EGR 1108	

ENME407 **Iceland, The Land of Fire and Ice: Sustainability, Climate Change and Renewable Energy Systems**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161.

Students travel to Iceland to explore innovative solutions to climate change, analyze geothermal, hydroelectric, wind and other renewable energy systems as well as their applications.

Contact department for information to register for this course.

ENME445 **Design for Reliability**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher.

Failure prevention, accident prevention, design requirements analysis, designing right the first time, high system reliability, software reliability, manufacturing defect prevention, life cycle costs reduction, design reviews, managing the design for reliability, design trustworthiness, product durability, and writing good specifications are covered.

WB31	Baldev Raheja	Seats (Total: 33)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

ENME462 **Vibrations, Controls, and Optimization II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME351 and ENME361.

Continuation of ENME 361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Steven Mitchell	Seats (Total: 32)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 8:00am - 10:00am	EGR 3106

ENME470 **Finite Element Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.

Basic concepts of the theory of the finite element method. Applications in solid mechanics and heat transfer.

0201	Abdollah Bagheri	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	MWF 12:30pm - 3:00pm	EGR 1156

ENME488 **Special Problems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.

Contact department for information to register for this course.

ENME635 **Energy Systems Analysis**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM635 or ENME635.

Rankine cycles with nonazeotropic working fluid mixtures, two-, multi- and variable-stage absorption cycles and vapor compression cycles with solution circuits. Power generation cycles with working fluid mixtures. Development of rules for finding all possible cycles suiting a given application or the selection of the best alternatives.

Contact department for information to register for this course.

ENME701 **Sustainable Energy Conversion and the Environment**

Credits: 3 Grading Method: Regular, Audit

Recommended: ENME633. Credit only granted for: ENME701, ENME706 or ENME808D. Formerly: ENME706 and ENME808D.

Discussion of the major sources and end-uses of energy in our society with particular emphasis on renewable energy production and utilization. Introduces a range innovative technologies and discusses them in the context of the current energy infrastructure. Renewable sources such as wind and solar are discussed in detail. Particular attention is paid to the environmental impact of the various forms of energy.

Contact department for information to register for this course.

ENME799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENME808 **Advanced Topics in Mechanical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENME898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENME899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENNU Engineering, Nuclear Summer 2019

ENNU620 **Mathematical Techniques for Engineering Analysis and Modeling**

Credits: 3 Grading Method: Regular

Cross-listed with ENRE620.

Basic probability and statistics. Application of selected mathematical techniques to the analysis and solution of reliability engineering problems. Applications of matrices, vectors, tensors, differential equations, integral transforms, and probability methods to a wide range of reliability related problems.

0201	Reuel Smith **Meets July 8, 2019 - August 16, 2019** MW 5:15pm - 9:00pm	Seats (Total: 20) JMP 2222
ER02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE
NE02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 10) ONLINE
RE02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 5) ONLINE
SG02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** MW 5:15pm - 9:00pm	Seats (Total: 10) Location: TBA
SM02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** MW 5:15pm - 9:00pm	Seats (Total: 10) Location: TBA

ENNU899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0102	Mohamad Al-Sheikhly	Seats (Total: 1)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

ENPM Engineering, Professional Masters Summer 2019

ENPM652 **Applied Finite Element Methods**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed ENME674; and must not have completed ENAE652. Credit only granted for: ENME674, ENAE652, or ENPM652.

For engineering and science students with little or no previous knowledge of the FEM. Study of FEM, using straightforward mathematics. Students should understand basic concepts and equations of elasticity and thermal heat flow, be familiar with simple matrix algebra. Covers stress analysis and thermal analysis problems. ANSYS finite element code will be used for examples and homework solutions. Basic problem solving procedure will be developed for using finite element computer codes.

CP01	John Clayton	Seats (Total: 25)
	Meets May 28, 2019 - August 16, 2019	
	M 5:30pm - 8:55pm	JMP 2121
SG01	John Clayton	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	M 5:30pm - 8:55pm	Location: TBA
SM01	John Clayton	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	M 5:30pm - 8:55pm	Location: TBA

ENPM654 **Energy Systems Management**

Credits: 3 Grading Method: Regular, Audit

Recommended: Background in thermodynamics, fluid mechanics, and heat transfer is recommended.

Covers a wide range of energy management and energy efficiency topics including energy auditing, energy efficient lighting systems and motors, demand limiting and control, control strategies for optimization, direct digital control, integrated building automation systems, communication networks, distributed generation, cogeneration, combined heat and power, process energy management and the associated economic analyses. Included will be the latest internet based technologies for accessing real-time energy pricing and managing energy demand remotely for multiple buildings or campuses.

CP01	Brian Valentine **Meets May 28, 2019 - August 16, 2019** Th 5:30pm - 8:55pm	Seats (Total: 20) JMP 2216
ME01	Brian Valentine **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Brian Valentine **Meets May 28, 2019 - August 16, 2019** Th 5:30pm - 8:55pm	Seats (Total: 5) Location: TBA
SM01	Brian Valentine **Meets May 28, 2019 - August 16, 2019** Th 5:30pm - 8:55pm	Seats (Total: 5) Location: TBA

ENPM687 **Digital Forensics and Incidence Responses**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Experience with both Windows and Unix-based operating systems, including using the command line. Credit only granted for: ENPM808P or ENPM687. Formerly: ENPM808P.

Students will implement a robust incident response methodology, including proper forensic handling of evidence, and cover legal aspects of national and international law regarding forensics. The bulk of the course covers evidence acquisition, preservation, analysis and reporting on multiple platforms.

CP01	Jonas Amoonarquah **Meets May 28, 2019 - August 16, 2019** Tu 5:30pm - 8:45pm	Seats (Total: 20) JMP 3201
CY01	Jonas Amoonarquah **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Jonas Amoonarquah **Meets May 28, 2019 - August 16, 2019** Tu 5:30pm - 8:45pm	Seats (Total: 5) Location: TBA

SM01	Jonas Amoonarquah **Meets May 28, 2019 - August 16, 2019** Tu 5:30pm - 8:45pm	Seats (Total: 5) Location: TBA

ENPM808 **Advanced Topics in Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

CP01	George Syrmos **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

ENPM808M **Advanced Topics in Engineering; Systems Engineering Management**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

CP01	Nidak Sumrean, Felicia Jones **Meets May 28, 2019 - July 26, 2019** TuTh 6:00pm - 8:40pm	Seats (Total: 25) JMP 2222
DE01	Nidak Sumrean, Felicia Jones **Meets May 28, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 5) ONLINE
SG01	Nidak Sumrean, Felicia Jones **Meets May 28, 2019 - July 26, 2019** TuTh 6:00pm - 8:40pm	Seats (Total: 5) Location: TBA
SM01	Nidak Sumrean, Felicia Jones **Meets May 28, 2019 - July 26, 2019** TuTh 6:00pm - 8:40pm	Seats (Total: 5) Location: TBA

ENPM808R **Advanced Topics in Engineering; Machine Learning Techniques Applied to Cybersecurity**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

CP01	Malachi Jones **Meets May 28, 2019 - August 16, 2019** Th 5:30pm - 8:55pm	Seats (Total: 25) JMP 2121
CY01	Malachi Jones **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Malachi Jones **Meets May 28, 2019 - August 16, 2019** Th 5:30pm - 8:55pm	Seats (Total: 5) Location: TBA
SM01	Malachi Jones **Meets May 28, 2019 - August 16, 2019** Th 5:30pm - 8:55pm	Seats (Total: 5) Location: TBA

ENPM809J **Special Topics in Engineering; Cloud Security**

Credits: 3 Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

CP01	Kevin Shivers **Meets May 28, 2019 - August 16, 2019** W 5:30pm - 8:55pm	Seats (Total: 40) JMP 3201
CY01	Kevin Shivers **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Kevin Shivers **Meets May 28, 2019 - August 16, 2019** W 5:30pm - 8:55pm	Seats (Total: 5) Location: TBA

SM01	Kevin Shivers **Meets May 28, 2019 - August 16, 2019** W 5:30pm - 8:55pm	Seats (Total: 5) Location: TBA

ENPM809T **Special Topics in Engineering; Autonomous Robotics**

Credits: 3 Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

CP01	Steven Mitchell **Meets May 28, 2019 - August 16, 2019** Tu 5:30pm - 8:45pm	Seats (Total: 25) JMP 2216
SM01	Steven Mitchell **Meets May 28, 2019 - August 16, 2019** Tu 5:30pm - 8:45pm	Seats (Total: 10) Location: TBA

ENRE Reliability Engineering Summer 2019

ENRE447 **Fundamentals of Reliability Engineering**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENRE445 or ENRE447. Formerly: ENRE445.

Topics covered include: fundamental understanding of how things fail, probabilistic models to represent failure phenomena, life-models for non-repairable items, reliability data collection and analysis, software reliability models, and human reliability models.

Contact department for information to register for this course.

ENRE489K **Special Topics in Reliability Engineering; Design for Reliability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in reliability engineering.

ER01	Baldev Raheja **Meets May 28, 2019 - June 14, 2019** MTuWThF 9:00am - 12:00pm	Seats (Total: 10) Location: TBA

RE01	Baldev Raheja	Seats (Total: 10)
	Meets May 28, 2019 - June 14, 2019	
	MTuWThF 9:00am - 12:00pm	Location: TBA

ENRE600 **Fundamentals of Failure Mechanisms**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Cross-listed with ENMA626. Credit only granted for: ENMA626, ENMA698M, ENMA698R, or ENRE600.

Advanced failure mechanisms in reliability engineering wiil be taught from a basic materials and defects point of view. The methods of predicting the physics of failure of devices, materials, components and systems are reviewed. The main emphasis will be given to basic degradation mechanisms through understanding the physics, chemistry, and mechanics of such mechanisms. Mechanical failures are introduced through understanding fatigue, creep and yielding in materials, devices and components. The principles of cumulative damage and mechanical yielding theory are taught. The concepts of reliability growth, accelerated life testing, environmental testing are introduced. Physical, chemical and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real electronic devices and electronic packaging will also be presented. Problems related to manufacturing, and microelectronics will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory.

Contact department for information to register for this course.

ENRE602 **Reliability Analysis**

Credits: 3 Grading Method: Regular, Audit

Cross-listed with ENNU652. Credit only granted for: ENRE602 or ENNU652

Principal methods of reliability analysis, including fault tree and reliability block diagrams; Failure Mode and Effects Analysis (FMEA); event tree construction and evaluation; reliability data collection and analysis; methods of modeling systems for reliability analysis. Focus on problems related to process industries, fossil-fueled power plant availability, and other systems of concern to engineers.

Contact department for information to register for this course.

ENRE620 **Mathematical Techniques of Reliability Engineering**

Credits: 3 Grading Method: Regular, Audit

Cross-listed with ENNU620.

Basic probability and statistics. Application of selected mathematical techniques to the analysis and solution of reliability engineering problems. Applications of matrices, vectors, tensors, differential equations, integral transforms, and probability methods to a wide range of reliability related problems.

0201	Reuel Smith **Meets July 8, 2019 - August 16, 2019** MW 5:15pm - 9:00pm	Seats (Total: 20) JMP 2222
ER02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE
NE02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 10) ONLINE
RE02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 5) ONLINE
SG02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** MW 5:15pm - 9:00pm	Seats (Total: 10) Location: TBA
SM02	Reuel Smith **Meets July 8, 2019 - August 16, 2019** MW 5:15pm - 9:00pm	Seats (Total: 10) Location: TBA

ENRE642 **Reliability Engineering Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Unifying systems perspective of reliability engineering management. Design, development and management of organizations and reliability programs including: management of systems evaluation and test protocols, development of risk management-mitigation processes, and management of functional tasks performed by reliability engineers.

ER01	Frederick Schenkelberg **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 15)

RE01	Frederick Schenkelberg	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ENRE648 **Special Problems in Reliability Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

Contact department for information to register for this course.

ENRE655 **Advanced Methods in Reliability Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENRE602. Credit only granted for: ENRE655 or ENRE665. Formerly: ENRE665.

Bayesian methods and applications, estimation of rare event frequencies uncertainty analysis and propagation methods, reliability analysis of dynamic systems, analysis of dependent failures, reliability of repairable systems, human reliability analysis methods and theory of logic diagrams and application to systems reliability.

Contact department for information to register for this course.

ENRE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENRE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENRE899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENSE Systems Engineering Summer 2019

ENSE699 **Directed Study in Systems Engineering**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Directed study in Systems Engineering.

Contact department for information to register for this course.

ENSE799 **Systems Engineering Thesis; Masters Thesis Research**

(Perm req)

Credits: 1-4 Grading Method: Regular

The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.

Contact Systems Engineering Office, Rm. 2172 A. V. Williams Bldg. to make arrangements.

0101	Michael Ball **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0102	John Baras **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0103	Mark Austin **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0104	Guangming Zhang **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0106	Eyad Abed **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0107	Ben Shneiderman **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0112	Satyandra Gupta **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0114	Michael Fu **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0116	Jeffrey Herrmann **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0117	Raymond Adomaitis **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0119	Reza Ghodssi **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0122	David Lovell **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0123	Huan Xu **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0124	Alireza Khaligh **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0126	Pamela Abshire **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0127	William Rand **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Abhinav Shrivastava **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0202	Dinesh Manocha **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0203	Derek Paley **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0204	Kenneth Wood **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0216	Jeffrey Herrmann **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0222	David Lovell **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0223	Huan Xu **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0229	Shihab Shamma **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

ENSP Environmental Science and Policy Summer 2019

ENSP386 **Internship**

Credits: 3-6 Grading Method: Regular

Restriction: Must have internship proposal approved by the concentration advisor, the director of ENSP and the student's internship sponsor.

Contact department for information to register for this course.

ENSP399A **Special Topics in Environmental Science and Policy; Conflict and the Environment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

Also offered as GVPT309A. Credit only granted for ENSP399A or GVPT309A. This course will examine the complex nexus of security and environmental change. Specifically, the impact of environmental change on conflict - how it may increase conflict through resource scarcity, environmental refugee migration and state weakness, or decrease it through damage to military infrastructure and public distraction. It will also cover the impact of war on the environment, as in the cases of military base pollution and nuclear/chemical warfare.

WB21	Caitlin McCulloch	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

ENST Environmental Science and Technology Summer 2019

ENST389 **Internship**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Credit will be granted for practical work carried out by students place in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST489 **Research Experience**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An advanced research-based course in the field of environmental science and technology.

Contact department for information to register for this course.

ENST499 **Special Topics in Environmental Science and Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST499P **Special Topics in Environmental Science and Technology; Ecology and Natural Resources Management in Brazil**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST608 **Research Methods**

Credits: 1-4

Grading Method: Regular, Audit

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

Contact department for information to register for this course.

ENST608A **Research Methods; Field Studies in Pedology**

Credits: 1

Grading Method: Regular, Audit

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

I201	Martin Rabenhorst	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

ENST689P **Special Topics; Ecology and Natural Resources Management in Brazil**

Credits: 3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Contact department for information to register for this course.

ENST799 **Master's Thesis Research**

Credits: 1-6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENTM Entomology Summer 2019

ENTM699 **Advanced Entomology**

Credits: 1-6 Grading Method: Regular, Audit

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

Contact department for information to register for this course.

ENTM735 **Sustainability**

Credits: 3 Grading Method: Regular

Application of the concept of sustainability to both ecosystem services provided by beneficial insects, as well as the management of injurious insects. Ecological functions of insects in the natural and anthropogenic landscape will be illustrated and discussed. In addition, case histories and discussions will focus on themes of sustainability in successful IPM programs, as well as specific practices that lead to sustainable agriculture. The course will conclude with the development of a list of sustainable practices for conserving and managing insects in the landscape.

PLCM	William Lamp **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs *For permission to enroll, contact oes@umd.edu. Part of the Applied Entomology Program.*	Seats (Total: 2) ONLINE
PLE1	William Lamp **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs *Must be in Applied Entomology program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.*	Seats (Total: 8) ONLINE

ENTM760 **Insects in the 21st Century**

Credits: 3 Grading Method: Regular

This course will explore the influence and impact of major technological advances in genetics, molecular genetics and biotechnology on the study of insects. Topics will include the use of insects as models for studying human biology and diseases; the use of genetics and genetic technologies to augment existing strategies for managing pest insects and well as the invention of novel management approaches; the use of genetics and genetic technologies in the fields of insect conservation, ecology and evolution.

PLE1	Michelle Bertke	Seats (Total: 8)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Must be in Applied Entomology program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	

ENTM769 **Capstone: Scholarly Paper**

Credits: 3 Grading Method: Regular

An examination of the current literature on topics related to the field of applied entomology. The Capstone Course provides the opportunity to apply and integrate best practices based on current research in the form of a formal scholarly paper.

PLE1	Marcia Shofner	Seats (Total: 1)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Must be in Applied Entomology program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	

ENTM789 **Field Experience in Pest Management**

Credits: 1-6 Grading Method: Regular, Audit

Involvement in practical problems of pest management in field situations. The student will be assigned to a problem area for intensive experience, usually during the summer. A final written report is required for each assignment.

Contact department for information to register for this course.

ENTM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENTM899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENTS Telecommunications Summer 2019

ENTS669G **Special Topics in Computing; Data Mining and Numerical Python**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in computing.

Prerequisite: Permission of ENST Program Only.

0201	Michael Dellomo	Seats (Total: 24)
	Meets July 8, 2019 - August 16, 2019	
	MTuW 2:00pm - 4:45pm	AVW 1458

ENTS699 **Independent Study in Telecommunications**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Individual instruction course. See ENTS program office for section number.

Contact department for information to register for this course.

ENTS699B **Independent Study in Telecommunications; Embedded Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. See ENTS program office for section number.

Students work on an Embedded Signal Processing research project under the supervision of the instructor.

0101	Shuvra Bhattacharyya	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	F 2:00pm - 5:15pm	AVW 1458

ENTS699R **Independent Study in Telecommunications; Analytical Foundations of Telecommunications**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Individual instruction course. See ENTS program office for section number.

WB11	Alejandra Mercado	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

EPIB Epidemiology and Biostatistics Summer 2019

EPIB301 **Epidemiology for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Public Health Science program; or must be in Community Health program. And must have earned a minimum of 45 credits. Cross-listed with HLTH301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

WB21	Typhanye Dyer	Seats (Total: 100)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

EPIB315 **Biostatistics for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Minimum grade of C- in EPIB301; or must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in one of the following programs (Public Health Science; Community Health). Also offered as: HLTH300. Credit only granted for: EPIB300, EPIB315 or HLTH300. Formerly: EPIB300. Additional information: Course is cross-listed; students should check program advising information to determine which counts for their major.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

WB11	Raul Cruz-Cano	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	All course material is delivered online but the Midterm and Final Exams will be held in-person on Friday June 14 and Friday July 5, respectively, at the University of Maryland College Park Campus from 10:00am to 1:20pm. A limited number of students can take a synchronous long-distance exam as long as they make the appropriate arrangements with the course instructor no later than Friday, May, 31.	

EPIB330 **The Coming Plague: Public Health Perspectives**

Credits: 3 Grading Method: Regular

Prerequisite: BSCI202.

Disease control and prevention is fundamental to the health of local, national, and global populations. Infectious agents are constantly adapting and breaching our defenses. Factors related to society, the environment, and our increasing global interconnectedness increase the likelihood of disease emergence and spread. Vaccines and antibiotics, demographic changes and urbanization, climate change and natural disasters, international travel and commerce, poverty and war create conditions for infectious diseases to spread. So how do we design and execute solutions to public health threats? How do research, policies, interventions, and budgets affect public health systems?

WB11	Steven Ault	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

EPIB399 **Epidemiology and Biostatistics Independent Study**

Credits: 1-3 Grading Method: Regular

The EPIB undergraduate independent study is an opportunity for undergraduates from other departments in the SPH or the university to work with an Epidemiology and Biostatistics faculty member on research or special projects that are based out of EPIB.

0103	Sunmin Lee	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
0104	Mei-Ling Lee	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

0105	Hongjie Liu **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0106	Raul Cruz-Cano **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0107	Olivia Carter-Pokras **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0108	Tianzhou Ma **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0109	Brit Saksvig **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0110	Cher Dallal **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0111	Xin He **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0112	Quynh Nguyen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0113	Typhanye Dyer **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0114	Natalie Slopen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

0115	Jing Zhang **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0116	Paul Turner **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0117	Amir Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0118	Amy Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0119	Donald Milton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0120	Robin Puett **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0121	Sacoby Wilson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0122	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0203	Sunmin Lee **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0204	Mei-Ling Lee **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0205	Hongjie Liu **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0206	Raul Cruz-Cano **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0207	Olivia Carter-Pokras **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0208	Tianzhou Ma **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0209	Brit Saksvig **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0210	Cher Dallal **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0211	Xin He **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0212	Quynh Nguyen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0213	Typhanye Dyer **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0214	Natalie Slopen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0215	Jing Zhang **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0216	Paul Turner **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0217	Amir Sapkota **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0218	Amy Sapkota **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0219	Donald Milton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0220	Robin Puett **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0221	Sacoby Wilson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0222	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

EPIB463 **Introduction to Biostatistical Programming**

Credits: 3 Grading Method: Regular, Audit

An introduction to basic programming principles; data analysis tasks such as the calculation of summary statistics and the creation of graphs; and the implementation of statistical analysis concepts such as T-tests, ANOVA and correlation. Querying and managing data sets using SQL in SAS will also be covered.

WB21	Raul Cruz-Cano	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

EPIB489A **Special Topics in Epidemiology or Biostatistics; Bolivia: Global Health Lessons in Ecotourism and Community Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in epidemiology or biostatistics.

Also offered as EPIB689A and MIEH698A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

EPIB610 **Foundations of Epidemiology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB300; or equivalent undergraduate statistics or biostatistics course with a grade of C- or higher; or a score of 70% or higher on EPIB300 placement exam. Credit only granted for: EPIB610 or HLTH720. Formerly: HLTH720.

Introduction to the discipline of epidemiology and its applications to health issues and practices. Basic epidemiologic concepts and methods will be covered.

PLH1	Rodman Turpin	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Part of the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health program.	

EPIB620 **Chronic Disease Epidemiology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610.

Overview of prevalence and risk factors for major chronic diseases. Discussion of methodological issues unique to specific chronic disease.

WB11	Olivia Carter-Pokras	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

EPIB632 **Field Epidemiology for Global Health Intervention**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610; or permission of instructor.

Key success stories and case studies will highlight and emphasize the important role field epidemiology has filled in solving some of the most pressing health issues in the last 30 years in low- and middle-income countries (e.g. WHO's approach to disease control, elimination and eradication; issues around the sporadic re-emergence of policy and measles; and the initial and follow-up responses to recent epidemics such as Ebola, Zika, Chikungunya and Cholera). This course will utilize recent Global Burden of Disease information, WHO datasets and reports to provide a complementary framework in which field epidemiologic tools can be used to address both current and future global public health issues.

WB21	Steven Ault	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

EPIB635 **Applied Multilevel Modeling of Health Data**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SPHL602. Or EPIB610; and EPIB650. Or permission from Instructor. Recommended: EPIB697; or students are recommended to have a foundation in using SAS statistical software.

Provides an overview of multilevel models and their application to health data. As a hybrid course, class time will be split between introducing concepts, group discussion of multilevel models in public health literature, and working through hands-on exercises. Assignments and examples will use SAS statistical software.

WB21	Sirin Yaemsiri	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

EPIB650 **Biostatistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB300; or equivalent undergraduate statistics or biostatistics course with a grade of C- or higher; or a score of 70% or higher on EPIB placement exam. Credit only granted for: EPIB650, HLTH651, or HLTH688B. Formerly: HLTH651 and HLTH688B.

Basic statistical concepts and procedures for Public Health. Focuses on applications, hands-on-experience, and interpretations of statistical findings.

PLH1	Xin He	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Part of the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health program.	

EPIB655 **Longitudinal Data Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB651.

Statistical models for drawing scientific inferences from longitudinal data, longitudinal study design, repeated measures and random effects to account for experimental designs that involve correlated responses, handling of missing data.

0101	Xin He	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	MW 4:00pm - 7:30pm	SPH 0305

EPIB689A **Advanced Topics in Epidemiology or Biostatistics; Bolivia: Global Health Lessons in Ecotourism and Community Health**

Credits: 3 Grading Method: Regular, Audit

Special topics in epidemiology or biostatistics.

Also offered as EPIB489A and MIEH698A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

EPIB697 **Public Health Data Management**

Credits: 3 Grading Method: Regular

Prerequisite: Permission of instructor.

This course is designed to provide students with the expertise needed to effectively manage research data using SAS as the statistical programming language.

0201	Raul Cruz-Cano	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	TuTh 4:00pm - 7:10pm	SPH 0307

EPIB778 **Internship in Public Health**

(Perm req)

Credits: 1-4 Grading Method: Regular

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Contact department for information to register for this course.

EPIB785 **Internship in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department. Repeatable to 3 credits.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

I109	Xin He	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

I209	Brit Saksvig	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

EPIB786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

EPIB798 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

EPIB799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EPIB898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

EPIB899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EXST Office of Extended Studies Summer 2019

EXST001 **Residential Package**

Credits: 0 Grading Method:

Contact department for information to register for this course.

EXST002 **Commuter Package**

Credits: 0 Grading Method:

Contact department for information to register for this course.

EXST003 **International Residential Package**

Credits: 0 Grading Method:

Contact department for information to register for this course.

EXST005 **Course Cancellation Package**

Credits: 0 Grading Method:

Contact department for information to register for this course.

EXST010 **Hear Me Out! An Introduction to Public Speaking and Debate**

(Perm req)

Credits: 0 Grading Method:

YD41	Randall Fowler	Seats (Total: 25)
	Meets July 15, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:30pm	JMZ 2122
	This is part of Terp Discovery. Enrollment by permission only.	

EXST014 **Exploring Architecture**

(Perm req)

Credits: 0 Grading Method:

YD41	Jason Winters	Seats (Total: 20)
	Meets July 15, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:30pm	ARC 1105
	This is part of Terp Discovery. Enrollment by permission only.	

EXST016 **Science Detectives: An Introduction to Forensic Science**

(Perm req)

Credits: 0 Grading Method:

YD41	Kenneth Sossa	Seats (Total: 24)
	Meets July 15, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:30pm	HJP 3217
	This is part of Terp Discovery. Enrollment by permission only.	

EXST020 **Modern Medicine**

Credits: 0 Grading Method:

YD41	Genevieve Houston-Ludlam	Seats (Total: 24)
	Meets July 15, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:30pm	HJP 3211
	This is part of Terp Discovery. Enrollment by permission only.	

EXST026 **Harry Potter and the History of Magic**

(Perm req)

Credits: 0 Grading Method: Regular, Pass-Fail, Audit

YD41	Courtney Dahlke	Seats (Total: 20)
	Meets July 15, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:30pm	TLF 2100
	This section is part of Terp Discovery. Enrollment by permission only. mail summer@umd.edu for further information. History is alive and all around us, including as an inspiration for our favorite books and movies. This course explores the real history behind the "Wizarding World" created by J.K. Rowling in the Harry Potter series. We will examine texts, artifacts, and illustrations to explore the historical origins of the Philosopher's Stone, fantastical creatures, magic words, potions, and more.	

EXST030 **Dance Improvisation**

Credits: 0 Grading Method:

YD41	Kristina Harris	Seats (Total: 15)
	Meets July 15, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:30pm	PAC 1611
	This section is part of Terp Discovery. Enrollment by permission only. Email summer@umd.edu for further information. What does it mean to improvise? Improvisation is something everybody does, everyday. In this class we will explore improvisation through dance and movement. The instructor will focus on the class as a whole and provide personalized attention to individual students. The dance studio will be an open laboratory for trying out new ways of moving, and most importantly, a place to have FUN. Music: A variety music genres will be used within the class: afrobeat, classical, hip hop, pop, oldies rock and roll, electronic, and more. We will learn to improvise with all different types of musical accompaniment	

FILM Film Studies Summer 2019

FILM245 **Film Form and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Cross-listed with ENGL245. Credit only granted for: ENGL245 or FILM245

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

WB21	Konstantinos Pozoukidis	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

FILM319A **Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; Digital Video Production**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.

Prerequisite: FILM245 and (FILM301 OR FiLM302). Credit only granted for FILM319A OR FILM370. An introduction to basic video production using digital tools. Students will learn principles of pre-production, production, and post-production. Aesthetics, theory, and practical aspects will be examined in the context of short film production. The fundamentals of developing a screenplay, storyboard, cinematography, lighting, sound design, and editing will be discussed and explored. This course counts as an elective toward the major in Film Studies.

0601	Narendra Ratnapala	Seats (Total: 15)
	Meets July 29, 2019 - August 16, 2019	
	MTuWTh 9:00am - 3:00pm	JMZ 1122

FILM329G **Special Topics in National/International Cinemas; One Hundred Years of Hollywood and Politics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as HIST319W. Credit granted for FILM329G or HIST319W.

WB31	Saverio Giovacchini	Seats (Total: 40)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

FILM329M **Special Topics in National/International Cinemas; Global Film Censorship from the Cold War to the Digital Age**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

This online course will consider the global censorship of features films and other moving images (including animations, online videos, and art gallery projections) since 1945 to the present day. These films and moving images, censored, challenged, or banned on political, social, sexual, religious grounds, and for violent contents, will provide fascinating material to consider the relationship between culture and politics, morality, and ideology.

WB11	Jason Kuo	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

FILM342 **Film Comedy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FILM283, ENGL245, FILM245, or SLLC283; or permission of ARHU-School of Languages, Literatures, and Cultures department. Also offered as: SLLC342. Credit only granted for: SLLC342, FILM342, or SLLC368B. Formerly: SLLC368B.

Comedy as a specific cinematic genre.

WB51	Luka Arsenjuk	Seats (Total: 30)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

FILM459M **Special Topics in Genres/Auteurs/Cinema Movements; Science Fiction Cinema: Masterworks**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in genres, auteurs, and cinema movements.

This online course will screen and study the most important masterworks in science fiction cinema. Themes and representative works may include space fantasy (Star Wars series, Alien series), futuristic world (Metropolis, Blade Runner, The Matrix, Dark City), alien intrusions (The Thing, The Invasion of the Body Snatchers, Fifth Elements, E.T.: The Extra-Terrestrial), time travel (Planet of the Apes, Back to the Future series, Terminator series, Stargate), disasters (Twelve Monkeys, Armageddon), mental powers(Star Trek, The Dead Zone, Phenomenon) biological science and mutations (Frankenstein, Jurassic Park, Gattaca, Junior, Godzilla, Them). We will also cover key concepts of Media Language, Audience, Institution, and Representation of Gender and Race.

WB21	Jason Kuo	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

FMSC Family Science Summer 2019

FMSC111 **Credit Cards and College Students**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: Moderate level of computer literacy, especially Internet and ELMS. Reliable computer and Internet access. Credit only granted for: FMSC111, FMSC341 or FMSC498D. Formerly: FMSC498D.

Provides college students with factual information about basic money management skills, emphasizing the responsible use of credit, specifically credit cards. Topics will include financial goals, spending plan, wise use of credit, debt management, consumer credit protection, and ID Theft. Online lessons will include video clips and interactive class activities. Students will learn the basics to build a strong financial future.

WB51	Mia Russell	Seats (Total: 30)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

FMSC190 **Man Up! Where Are The Fathers?**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

An examination of changing fatherhood roles, health, and inequality in diverse families. Focus will be on masculinities and disparities among men by race and class; provider role expectations; and trauma and violence faced by men in contemporary society.

WB31	Kevin Roy	Seats (Total: 80)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

FMSC260 **Couple Relationships**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Credit only granted for: FMSC260 or FMST260. Formerly: FMST260.

Couple relationships and their alternatives in contemporary dating, courtship and marriage.

WB21	Elise Resnick	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

FMSC280 **Global, Child & Family Health: Getting There Via E-Communications**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: FMSC280 or FMSC289G. Formerly: FMSC289G.

Students will learn about global maternal, child and family health issues and how these issues may affect their lives. Interdisciplinary teams of students will collaborate to develop programs aimed at improving global family health through the use of information and communications technologies.

WB31	Elisabeth Maring	Seats (Total: 45)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

FMSC310 **Maternal, Child and Family Health**

Credits: 3 | Grading Method: Regular, Pass-Fail

Credit only granted for: FMSC310, FMSC410 or FMSC498A. Formerly: FMSC498A and FMSC410. Additional information: A comprehensive understanding of maternal, child, and family health, with additional emphasis on environmental health, needs assessment and evaluation, enabling students to more effectively address issues in the workplace.

Overview of the major issues in Maternal, Child, and Family Health in the U.S. and the world. The course will cover the social, political, environmental, and economic factors that shape the health of women, children, and families throughout the life course. It will employ the core disciplines of public health -- 1) epidemiology/biostatistics, 2) environmental health, 3) health policy and administration, and 4) social and behavioral health -- to examine these factors. The course introduces specific issues and interventions and places these issues and interventions within their broad sociohistorical context.

WB41	Edmond Shenassa	Seats (Total: 45)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

FMSC330 **Family Theories and Patterns**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Restriction: Junior standing or higher. Credit only granted for: FMSC330 or FMST330. Formerly: FMST330.

Theory and research on the family, including a cross-cultural analysis of family patterns.

WB41	Mia A Smith-Bynum	Seats (Total: 30)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

FMSC332 **Children in Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Prerequisite: PSYC100 or FMSC105. Credit only granted for: FMSC332 or FMST332. Formerly: FMST332.

A family life education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin, and the community.

WB11	Christine Schull	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

FMSC341 **Personal and Family Finance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.

Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.

WB11	William Knight **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE
WB22	William Knight **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE

FMSC383 **Delivery of Human Services to Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC330. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC383 or FMST383. Formerly: FMST383.

Processes of service delivery with special emphasis upon relationships among managers, service providers and clients. The impact of human service systems on families.

WB41	Allyson Pakstis **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

FMSC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of SPHL-Family Science department. Restriction: Junior standing or higher. Credit only granted for: FMSC386 or FMST386. Formerly: FMST386.

Contact department for information to register for this course.

FMSC399 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Individualized family and community studies projects of interest to student and faculty.

Contact department for information to register for this course.

FMSC432 **Adult Development and Aging in Families**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and (SOCY100 or SOCY105). And FMSC332; or must have completed a comparable development course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC432 or FMST432. Formerly: FMST432.

Theory, research, history, and programming related to adult development and aging in the intergenerational context of family.

WB11	Christine Schull	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

FMSC445 **Sexuality: Issues in Family Therapy and Service Delivery**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: A basic course in human sexuality; and permission of instructor. Jointly offered with FMSC645. Credit only granted for: FMSC445 or FMSC645.

Typical, dysfunctional, and pathological sexual functioning, including effects on individuals, couples, and family systems. Sensitizes students to sexual issues, explores how perceptions of such issues affect work with people, and emphasizes implications for marriage and family therapy.

0201	Monique Walker	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Th 9:30am - 12:50pm	Location: TBA
	W 1:00pm - 4:30pm	Location: TBA

FMSC460 **Violence in Families**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHS, DVUP

Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.

Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.

WB31	Christine Schull	Seats (Total: 45)	
	Meets May 28, 2019 - June 14, 2019		
	Class time/details on ELMs	ONLINE	

FMSC477 **Internship and Analysis in Family Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC383; and 9 credits in FMSC courses; and permission of SPHL-Family Science department. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC477, FMST347, or FMST477. Formerly: FMST477.

A supervised internship and a seminar requiring analysis. Opportunities to integrate theory and practice including 120 hours of contracted field experience. Summer or fall internship contracts due May 1; Spring contracts due December 1. See department for application procedures.

A planned, supervised internship complemented by analysis. Opportunities to integrate theory and practice. Field experience requires minimum of 120 hours per semester.

HY11	Ashley Pantaleao	Seats (Total: 45)	
	Meets May 28, 2019 - August 16, 2019		
	W 9:30am - 11:00am	SPH 1301	
	Class time/details on ELMs	ONLINE	Discussion

FMSC486 **Impacts of Socialized Family Law, Public Health and Poverty on the Cuban Family**

Credits: 4 Grading Method: Regular

Credit only granted for: FMSC486 or FMSC686. Additional information: This is a study abroad course which will primarily occur in Cuba. Additionally, the course involves an online component prior to and following the trip.

A comparison of family problems in a capitalist versus socialist society within the context of legal, public health, social, cultural and economic changes

Contact department for information to register for this course.

FMSC487 **Legal Aspects of Family Problems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC487 or FMST487. Formerly: FMST487.

Laws and legal procedures, with emphasis on adoption, marriage, divorce, annulment, and property rights, and how they affect family life.

WB41	Kerry Tripp	Seats (Total: 40)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE
WB51	Kerry Tripp	Seats (Total: 40)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	To register for this course after June 6, 2016, e-mail summer@umd.edu.	

FMSC498 **Special Topics: Family Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special course topics in family studies.

Individual family studies instruction course on topics of interest to student and faculty.

Contact department for information to register for this course.

FMSC645 **Sexuality: Issues in Family Therapy and Service Delivery**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed a basic course in human sexuality. Restriction: Permission of instructor. Jointly offered with FMSC445. Credit only granted for: FMSC445 or FMSC645.

Typical, dysfunctional, and pathological sexual functioning: effects on individuals, couples, and family systems. Sensitizes students to sexual issues, explores how perceptions or such issues affect work with people, and emphasizes implications for marriage and family therapy.

0201	Monique Walker	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Th 9:30am - 12:50pm	Location: TBA
	W 1:00pm - 4:30pm	Location: TBA

FMSC658 **Supervised Clinical Practice of Marriage and Family Therapy**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

The supervision of marriage and family therapy client contact. Various family systems models of supervision applied via extant methods, including live, videotaped, and audiotaped.

Prerequisite: FMSC650 and Permission of Instructor.

0101	Patricia Barros **Meets May 28, 2019 - July 5, 2019** W 9:00am - 12:00pm Contact instructor or department for details.	Seats (Total: 9) Location: TBA
0201	Patricia Barros **Meets July 8, 2019 - August 16, 2019** W 9:00am - 12:00pm Contact instructor or department for details.	Seats (Total: 9) Location: TBA

FMSC686 **Impacts of Socialized Family Law, Public Health and Poverty on the Cuban Family**

Credits: 4 Grading Method: Regular

Credit only granted for: FMSC486 or FMSC686. Additional information: This is a study abroad course which will primarily occur in Cuba. Additionally, the course involves an online component prior to and following the trip.

A comparison of family problems in a capitalist versus socialist society within the context of legal, public health, social, cultural and economic changes

Contact department for information to register for this course.

FMSC689 **Research Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Research experience resulting in a scholarly article suitable for publication in a peer-reviewed journal.

Internship related to student's chosen specialization.

Contact department for information to register for this course.

FMSC698 **Advanced Topics in Family Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

Contact department for information to register for this course.

FMSC698V **Advanced Topics in Family Science; Violence in Families**

Credits: 3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

WB31	Christine Schull	Seats (Total: 45)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

FMSC699 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

FMSC789 **Non-Thesis Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Non-thesis option research papers.

Contact department for information to register for this course.

FMSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

FMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0202	Sandra Quinn	Seats (Total: 3)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

FMSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FREN French Summer 2019

FREN103 **Intensive Elementary French**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed FREN102; and must not be a native/fluent speaker of French. Credit only granted for: FREN102 or FREN103.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

WB11	Callan Roten	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	This online section will be partially synchronous. Meeting times will be discussed the first day of class.	

FREN203 **Intensive Intermediate French**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN201 or FREN203.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

WB11	Leandra Cormier	Seats (Total: 17)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
WB21	Morgan McMahon	Seats (Total: 22)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

FREN204 **French Grammar and Composition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to native/fluent speakers of French.

Intensive study of French grammar and composition.

WB11	Jillian Bruns	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

FREN211 **French Reading and Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203. Restriction: Must not be a native/fluent speaker of French.

Practice in spoken French at intermediate level based on readings in a variety of genres. Written homework and exams.

Contact department for information to register for this course.

FREN269A **Special Topics in Study Abroad II; French Songs**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269F **Special Topics in Study Abroad II; French Conversation I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269G **Special Topics in Study Abroad II; French Conversation**

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN301 **Composition and Style**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Grammatical analysis, elements of style; range of written genres.

WB21	Charlee Bezilla	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

FREN311 **Advanced Oral Expression**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Linguistic and thematic analysis of written, audio, and visual texts. Focus on aural and oral skills. Some written assignments and evaluation.

Contact department for information to register for this course.

FREN312 **France Today**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Analysis and discussion of current events and institutions using variou French media resources.

Contact department for information to register for this course.

FREN369F **Special Topics in Study Abroad III; Third-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369G **Special Topics in Study Abroad III; Third-Year French II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369I **Special Topics in Study Abroad III; Third-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369Y **Special Topics in Study Abroad III; Fourth-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN399X **Directed Study in French; French Language and Culture on the Mediterranean**

Credits: 3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Contact department for information to register for this course.

FREN899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

I101	Valerie Orlando	Seats (Total: 1)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

GEOG Geographical Sciences Summer 2019

GEOG110 **The World Today: Global Perspectives**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

The most critical issue facing the world today is the sustainability of both human and physical systems in the 21st century. This class uses the context of regions of the world to explore the 21st century issues of climate change, development, politics, economy, and demography. Each region will be used to highlight aspects of sustainability.

WB11	Vanessa Kirn	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

WB21	Vanessa Kirn	Seats (Total: 35)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

GEOG130 **Developing Countries**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB, D	General Education: DSHS, DSSP

An introduction to the geographic characteristics of the development problems and prospects of developing countries. Spatial distribution of poverty, employment, migration and urban growth, agricultural productivity, rural development, policies and international trade. Portraits of selected developing countries.

WB31	Ronald Luna	Seats (Total: 25)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

GEOG140 **Natural Disasters: Earthquakes, Floods, and Fires**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS, SCIS

Catastrophic Environmental Events (CCE) that are becoming more common i this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CEEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.

0101	Keith Yearwood	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	MW 1:00pm - 4:30pm	ASY 3217
WB21	Hannah Younes	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

GEOG158G **Special Topics in Study Abroad I; The Geography of Grenada**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GEOG202 **Introduction to Human Geography**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DVCC

Introduction to what geographers do and how they do it. Systematic stud of issues regarding social and cultural systems from a global to a local scale. Looks at the distribution of these variables and answers the question "Why here, and not there"?

WB11	Jennifer Hinojosa **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 55) ONLINE
WB21	Joy Adams **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

GEOG212 **Career Planning for Geographical Sciences, GIS, and ENSP Majors**

Credits: 1	Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Geography; GEOG-GIS & Computer Cartography).

Increase student knowledge of professional development opportunities in Geographical Sciences through classroom activities and invited speakers, and to build awareness of career development tools and strategies.

WB61	Amanda Hall **Meets July 29, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE

GEOG306 **Introduction to Quantitative Methods for the Geographic Environmental Sciences**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: FSAR

Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Essentials in the quantitative analysis of spatial and other data, with a particular emphasis on statistics and programming. Topics include data display, data description and summary, statistical inference and significance tests, analysis of variance, correlation, regression, and some advanced concepts, such as matrix methods, principal component analysis, and spatial statistics. Students will develop expertise in data analysis using advanced statistical software.

Students must pay a $40.00 laboratory materials fee.

WB11	Donal O'Leary **Meets May 28, 2019 - July 5, 2019** MW 6:00pm - 9:45pm	Seats (Total: 40) ONLINE
WB21	Yuhan Rao **Meets July 8, 2019 - August 16, 2019** MW 6:00pm - 9:45pm	Seats (Total: 40) ONLINE

GEOG328M **Topics in Regional Geography; Geography of the Southern Caribbean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in regional geography.

Contact department for information to register for this course.

GEOG328P **Topics in Regional Geography; The Geography of Puerto Rico**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in regional geography.

Contact department for information to register for this course.

GEOG330 **As the World Turns: Society and Sustainability in a Time of Great Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP, SCIS

Credit only granted for: GEOG330, GEOG360, or GEOG362. Formerly: GEOG362.

Cultural geography course on society and sustainability. Culture is the basic building block that is key to sustainability of societies. Course will cover sustainability of societies on different scales, examining local, regional, and worldwide issues. Sustainability will be examined as a key element of environmental sustainability. How societies adjust to rapid world change will be examined as a positive and/or negative factor in sustainability.

WB31	Rachel Berndtson **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE
WB42	Rachel Lamb **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE
WB51	Rachel Lamb **Meets June 17, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE

GEOG332 **Economic Geography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG203, GEOG303, or GEOG332. Formerly: GEOG303.

Principles of managing scarce resources in a world where everyone faces tradeoffs across both time and space. Focuses on the relationship between globalization processes and changing patterns of locational advantages, production, trade, population, socioeconomic and environmental grace and sustainability.

WB21	Joshua Wayland **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 25) ONLINE

GEOG358A **Special Topics in Study Abroad III; Croatia: At the Doorsteps of the European Union- Leaving Behind the Memories**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GEOG358B **Special Topics in Study Abroad III; Investigating the Geographical Impacts of Urbanization in China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GEOG358C **Special Topics in Study Abroad III; China: Summer Honors Research Program**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GEOG358D **Special Topics in Study Abroad III; Croatia: From War and Communism to the EU Membership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GEOG372 **Remote Sensing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Principles of remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.

Students must pay a $40.00 laboratory materials fee.

0201	Meredith Brown	Seats (Total: 35)	
	Meets July 8, 2019 - August 16, 2019		
	MW 2:30pm - 4:00pm	LEF 1158	
	MW 4:00pm - 6:00pm	LEF 1138	Lab

GEOG373 **Geographic Information Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.

Students must pay a $40.00 laboratory materials fee.

0101	Naijun Zhou **Meets May 28, 2019 - July 5, 2019** MW 10:30am - 12:00pm MW 12:00pm - 2:00pm	Seats (Total: 25) LEF 1158 LEF 1138	Lab
WB11	Rachel Marks **Meets May 28, 2019 - July 5, 2019** TuTh 6:00pm - 9:30pm	Seats (Total: 50) ONLINE	
WB21	Nathan Burtch **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE	

GEOG376 **Introduction to Computer Programming for GIS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH120, MATH130, or MATH140; or must have completed MATH220. And GEOG373; or permission of BSOS-Geography department.

Introduces conceptual and practical aspects of programming for geographic applications. The main focus is on developing a solid understanding of basic programming techniques irrespective of the specific programming language including variables, looping, conditional statements, nesting, math, strings, and other concepts. In addition, students will develop a proficiency in applying these basic programming principles to manipulating spatial data sources within the Geographic Information Systems (GIS).

Students must pay a $40.00 laboratory materials fee.

WB21	Dong Chen **Meets July 8, 2019 - August 16, 2019** MW 6:00pm - 9:30pm	Seats (Total: 25) ONLINE	

GEOG384 **Internship in Geography I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Contact department for information to register for this course.

GEOG384H **Internship in Geography I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Prerequisite: permission of department.

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Ronald Luna **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

GEOG385 **Internship in Geography II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Contact department for information to register for this course.

GEOG385H **Internship in Geography II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Prerequisite: permission of department.

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

GEOG398 **Special Topics in Geography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

0110	Ronald Luna **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0210	Ronald Luna **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0220	Giovanni Baiocchi **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

GEOG398H **Special Topics in Geography**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

Prerequisite: permission of department.

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 1)

0201	Instructor: TBA	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

GEOG473 **Geographic Information Systems and Spatial Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG306 and GEOG373; or students who have taken courses with comparable content may contact the department. Credit only granted for: GEOG473 or GEOG482. Formerly: GEOG482.

Analytical uses of geographic information systems; data models for building geographic data bases; types of geographic data and spatial problems; practical experience using advanced software for thematic domains such as terrain analysis, land suitability modeling, demographic analysis, and transportation studies.

Students must pay a $40 laboratory materials fee.

WB11	Naijun Zhou	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 6:00pm - 9:30pm	ONLINE

GEOG474 **Foundations for GIS: Geospatial Databases**

Credits: 3 Grading Method: Regular, Audit

Introduction to key aspects of database design for GIS applications; major database models that support spatial data; formal models for key spatial relationships that underlie many different GIS applications; basics of SQL for making queries on datasets; design and construction of ArcGIS geodatabases; ArcGIS tools for geoprocessing.

WB21	Naijun Zhou	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	MW 6:30pm - 10:00pm	ONLINE

GEOG498 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Contact department for information to register for this course.

GEOG498H **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Prerequisite: permission of department.

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

GEOG579 **Introduction to Remote Sensing and GIS; Introduction to GIS**

Credits: 2 Grading Method: Regular

Introduction to remote sensing and geographic information systems. Topics include methods of obtaining quantitative information from remotely sensed images, interpretation of remotely sensed images for spatial and environmental relationships, characteristics and organization of geographic data, including spatial data models for thematic mapping and map analysis and use of GIS in society, government, and business. Practical experience with remote sensing software and GIS.

Additionally, special advanced students are eligible to register without department permission.

GI01	Byron Marroquin **Meets May 28, 2019 - August 16, 2019** M 5:30pm - 7:00pm M 7:00pm - 8:00pm	Seats (Total: 20) LEF 1136 LEF 1136	 Lab

GEOG579B **Introduction to Remote Sensing and GIS; Introduction to Remote Sensing**

Credits: 2 Grading Method: Regular

Introduction to remote sensing and geographic information systems. Topics include methods of obtaining quantitative information from remotely sensed images, interpretation of remotely sensed images for spatial and environmental relationships, characteristics and organization of geographic data, including spatial data models for thematic mapping and map analysis and use of GIS in society, government, and business. Practical experience with remote sensing software and GIS.

Additionally, special advanced students are eligible to register without department permission.

GI01	Jiaming Lu	Seats (Total: 25)	
	Meets May 28, 2019 - August 16, 2019		
	W 5:30pm - 7:00pm	TYD 2108	
	W 7:00pm - 8:00pm	TYD 2108	Lab

GEOG579C **Introduction to Remote Sensing and GIS; Introduction to Computer Programming**

Credits: 2-4 Grading Method: Regular

Introduction to remote sensing and geographic information systems. Topics include methods of obtaining quantitative information from remotely sensed images, interpretation of remotely sensed images for spatial and environmental relationships, characteristics and organization of geographic data, including spatial data models for thematic mapping and map analysis and use of GIS in society, government, and business. Practical experience with remote sensing software and GIS.

GI01	Zheng Liu	Seats (Total: 20)	
	Meets May 28, 2019 - August 16, 2019		
	M 5:30pm - 7:30pm	LEF 1171	
	Tu 5:30pm - 7:30pm	LEF 1171	Lab

GEOG603 **Masters Research Tutorial**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG600. Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG603 or GEOG610. Formerly: GEOG610.

Development of Masters scholarly paper topic, critical literature review, formulation of geographical approach to research methodology. Individual meetings with faculty. Comprehensive exam before the end of the semester.

Contact department for information to register for this course.

GEOG650 **MOBILE GIS**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG657. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course covers how to create, test, and publish mobile GIS applications that work across multiple platforms (Android, iOS, and Black Berry Tablet OS) and adapt to a smartphone or tablet display.

Students must pay a $40 laboratory materials fee.

CG01	Eunjung Lim	Seats (Total: 16)	
	Meets July 8, 2019 - August 16, 2019		
	W 1:00pm - 5:00pm	LEF 1136	
	Th 1:00pm - 4:00pm	LEF 1138	Lab
	This section is only open to students enrolled in the Joint GIS Program with Nanjing Normal University.		

GEOG651 **Spatial Statistics**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG615; or students who have taken courses with comparable content may contact the department. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course is about quantitative analysis of spatial data. It is intended to provide a broad survey of various methods of exploratory statistical data analysis most useful in environmental and social sciences. The course is a mix of theory, methods, and applications geared towards helping students: (1) develop an understanding of the important theoretical concepts in spatial data analysis; and (2) gain practical experience in application of spatial statistics to a variety of social and environmental problems using advanced statistical software.

Contact department for information to register for this course.

GEOG656 **Programming and Scripting for GIS**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG653. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

An introduction to programming and scripting for intermediate GIS users. The fundamental concepts of computer programming will be introduced within the Geoprocessing framework in ArcGIS primarily using Python. Basic concepts of object-oriented programming and scripting will be presented. Students will develop skills in programming techniques to explore, manipulate and model spatial data using the Geoprocessor methods.

Students must pay a $40 laboratory materials fee.

GI01	Jonathan Resop	Seats (Total: 20)	
	Meets May 28, 2019 - August 16, 2019		
	W 5:30pm - 8:00pm	LEF 1171	
	Th 5:30pm - 8:00pm	LEF 1171	Lab

GI02	Jonathan Resop	Seats (Total: 10)	
	Meets May 28, 2019 - August 16, 2019		
	W 5:30pm - 8:00pm	LEF 1171	
	Th 5:30pm - 8:00pm	LEF 1171	Lab

GEOG660 **Advanced Remote Sensing Using Lidar**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG652. Recommended: GEOG656 and GEOG654. Credit only granted for: GEOG660 or GEOG788G. Formerly: GEOG788G.

Lidar, also known as laser scanning, is an active remote sensing tool that can produce high-resolution point clouds. Lidar is being applied to problems such as terrain modeling, biomass estimation, change detection, feature extraction, and measuring tree canopy. Topics covered are fundamentals of lidar, current developments in lidar technology, and different applications where lidar is being used. Students will get hands-on learning about lidar data management, processing, and analysis.

GI01	Jonathan Resop	Seats (Total: 15)	
	Meets May 28, 2019 - August 16, 2019		
	Tu 11:30am - 2:00pm	ONLINE	
	Tu 2:00pm - 4:00pm	ONLINE	Lab

GEOG670 **Open Source GIS**

Credits: 3 Grading Method: Regular

Credit only granted for: GEOG670 or GEOG788A. Formerly: GEOG788A. Additional information: Students do not need any experience using open source GIS, but students are expected to be comfortable using a desktop GIS such as ArcGIS.

An exploration of techniques for using Free and Open Source Software for GIS (FOSS4g) from conception to final presentation of results. Advanced concepts and techniques including enterprise GIS, spatial SQL, parallel processing, and displaying the results of GIS analysis over the Internet will also be covered.

GI01	Baboyma Kagniniwa	Seats (Total: 25)	
	Meets May 28, 2019 - August 16, 2019		
	W 5:30pm - 8:00pm	KEY 1117	
	Th 5:30pm - 8:00pm	LEF 1138	Lab

GEOG677 **Internet GIS**

Credits: 3 Grading Method: Regular, Audit

Recommended: GEOG676. Restriction: Permission of BSOS-Geography department.

Online course delivers information on the use of GIS applications on th Internet. Covers hardware/software structure of the Internet, the means for communicaton between Internet-connected devices, applications that provide GIS program and data, and performance and security concerns.

Students must pay a $40 laboratory materials fee.

CG01	Jianguo Ma	Seats (Total: 16)	
	Meets July 8, 2019 - August 16, 2019		
	M 1:00pm - 5:00pm	LEF 1136	
	Tu 1:00pm - 4:00pm	LEF 1138	Lab
	This section is only open to students enrolled in the Joint GIS Program with Nanjing Normal University.		

GEOG680 GEOINT Networks

Credits: 3 Grading Method: Regular

Networks are an important part of the Geospatial Intelligence (GEOINT) cycle, from the sensor networks that are used to collect raw geospatial information to the telecommunication networks that are used to disseminate finished GEOINT products. Transportation networks, computer networks, social networks, and many other man-made and natural features can also be characterized by a link-node network topology, and can be studied using network science methods. Upon completion of this course you will be able characterize and classify real-world GEOINT networks and their components, understand network dynamics including routing, scalability, and robustness, and be able to apply engineering methods for network design and network analysis.

GI01	Micah Brachman	Seats (Total: 20)	
	Meets May 28, 2019 - August 16, 2019		
	W 5:30pm - 8:00pm	LEF 1106	
	Th 5:30pm - 8:00pm	LEF 1106	Lab

GEOG682 Open Source Intelligence

Credits: 3 Grading Method: Regular, Audit

Open Source Intelligence (OSINT) is information that is publicly available that is collected and analyzed to support decision-making. The collection and analysis of OSINT is often considered to be the first step in developing an all-source intelligence product, where OSINT is fused with Geospatial Intelligence (GEOINT), Signals Intelligence (SIGINT), and Measurement and Signature Intelligence (MASINT), and Human Intelligence (HUMINT). In this course you will learn about the sources, ethics, and methods that are associated with OSINT, and will also develop knowledge and skills related to open-source geospatial technologies and organizations such as the Open Geospatial Consortium (OGC).

GI01	Micah Brachman	Seats (Total: 20)	
	Meets May 28, 2019 - August 16, 2019		
	M 5:30pm - 8:00pm	LEF 1106	
	Tu 5:30pm - 8:00pm	LEF 1106	Lab

GEOG688E **Selected Topics in GIS; Commercial Drones for Data**

Credits: 3 Grading Method: Regular, Audit

Readings and discussion on selected topics in the field of Geographic Information Science (GIS).

Topics covered in this class include: how to prepare students to obtain their FAA Remote Pilot License; understand how to pick drone systems for a data need; and utilize Pix4D to process drone imagery. Before talking about data students will learn about drone and aviation specific laws that will effect them while carrying out operations. Once legal limitations of drone flights have been covered the course will shift toward learning how to select a drone system based on specifications of the equipment and needs of the project. Students will then move on to data processing utilizing Pix4D, Python, and Bash to clean data and automate processing. By the end of the course students should be prepared to design flight plans taking into account regulations, data requirements, and environmental impacts.

GI01	Andrew Sussman	Seats (Total: 20)	
	Meets May 28, 2019 - August 16, 2019		
	M 5:30pm - 8:00pm	LEF 1220	
	Tu 5:30pm - 6:30pm	LEF 1220	Lab

GEOG788 **Selected Topics in Geography**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Readings and discussion on selected topics in the field of geography.

Contact department for information to register for this course.

GEOG788M **Selected Topics in Geography; Programming and Scripting for GIS**

Credits: 3 Grading Method: Regular

Readings and discussion on selected topics in the field of geography.

Prerequisite: permission of instructor.

0101	Jonathan Resop	Seats (Total: 5)	
	Meets May 28, 2019 - August 16, 2019		
	W 5:30pm - 8:00pm	LEF 1171	
	Th 5:30pm - 8:00pm	LEF 1171	Lab

GEOG789 **Independent Readings**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Independent reading as arranged between a graduate faculty member and graduate student.

Contact department to make arrangements.

Contact department for information to register for this course.

GEOG790 **Internship in Geography**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Field experience in the student's specialty in a Federal, state, or local agency or private business. Research paper required.

Contact department to make arrangements.

Contact department for information to register for this course.

GEOG795 **Professional Practices Seminar**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program.

Development and preparation of a resume, selecting and helping referenc writers, conducting successful interviews, negotiating an employment package, giving professional presentations, proposal prepartion, writing reports, codes of ethics and responsibilities. Presentations from practitioners in GIS field. Basic project management skills and strategies in preparation for professional project.

Contact department for information to register for this course.

GEOG799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GEOG898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GEOG899 **Doctoral Dissertation Research**

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

GEOL Geology Summer 2019

GEOL100 **Physical Geology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNL (if taken with GEOL110), DSNS

Credit only granted for: GEOL100 or GEOL120. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 110.

A general survey of the rocks and minerals composing the earth, its surface features and the agents that form them, and the dynamic forces of plate tectonics.

0101	Tracey Centorbi	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 9:30am - 10:50am	PLS 1176

GEOL499 **Special Problems in Geology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Contact department for information to register for this course.

GEOL798 **Seminar in Geology**

Credits: 1-3

Grading Method: Regular, Audit

Discussion of special topics in current literature in all phases of geology.

Contact department for information to register for this course.

GEOL799 **Master's Thesis Research**

Credits: 1-4

Grading Method: Regular

Contact department for information to register for this course.

GEOL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GEOL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GERM Germanic Studies Summer 2019

GERM103 **Intensive Elementary German**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM102; and must not be a fluent/native speaker of German. Credit only granted for: GERM102 or GERM103.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

WB11	Regina Ianozi	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

GERM203 **Intensive Intermediate German**

Credits: 4 Grading Method: Regular CORE: HO

Prerequisite: GERM103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM201; and must not have completed GERM202; and must not be a fluent/native speaker of German. Credit only granted for: GERM202 or GERM203.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

WB21	Regina Ianozi	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

GERM269A **Special Topics in Study Abroad II; Elementary German I**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM269B **Special Topics in Study Abroad II; Elementary German II**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM301 **Conversation and Composition I: The German-Speaking World**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM204; or students who have taken courses with comparable content may contact the department.

Practice in contemporary spoken and written German. Systematic review of grammar, and exercises in composition. Emphasis on cultural contrasts in the German-speaking world.

Contact department for information to register for this course.

GERM302 **Conversation and Composition II: Current Topics in German-Speaking Society**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Further practice in contemporary spoken and written German. Contemporary social, political, and cultural themes.

Contact department for information to register for this course.

GERM369C **Special Topics in Study Abroad III; German Composition I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369D **Special Topics in Study Abroad III; German Composition II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM386 **Experiential Learning**

Credits: 6 | Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

0201	Regina Ianozi	Seats (Total: 1)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

GVPT Government and Politics Summer 2019

GVPT170 **American Government**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

A comprehensive study of national government in the United States.

WB11	Catherine Aiken	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

GVPT200 **International Political Relations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP

A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.

WB11	Marjorie Breslawski	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

YS41	Margaret McWeeney	Seats (Total: 14)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 10:00am - 1:00pm	TYD 1118
	This section is part of Terp Young Scholars. Enrollment by permission only.	

GVPT201 **Scope and Methods for Political Science Research**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: GVPT100 or GVPT201. Formerly: GVPT100.

An introduction to empirical research in political science.

WB21	Pavel Coronado-Castellanos	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

GVPT241 **The Study of Political Philosophy: Ancient and Modern**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Examines some of the salient continuities and breaks between the ancient and modern traditions in Western political philosophy.

WB11	James Glass	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

GVPT258B **Introduction to Political Science Topics in Study Abroad; Enemy Within: Spies and Espionage in the Cold War**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258C **Introduction to Political Science Topics in Study Abroad; Government and Politics in China**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT282 **Politics and the Developing World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

A study of the domestic governmental institutions; processes and problems such as conflict and economic development; and the socio-economic environments that are common to developing countries of Africa, the Middle East, Asia, and Latin America.

WB21	Sebastian Vallejo Vera	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

GVPT306 **Global Environmental Politics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200.

Focus on three processes of international environmental policy development- identifying problems, negotiating solutions, and implementing agreements- through a range of case studies, including global climate change.

WB11	Jennifer Wallace	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

GVPT309A **Topics in International Relations; Conflict and the Environment**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Also offered as ENSP399A. Credit only granted for GVPT309A or ENSP399A. This course will examine the complex nexus of security and environmental change. Specifically, the impact of environmental change on conflict - how it may increase conflict through resource scarcity, environmental re fugee migration and state weakness, or decrease it through damage to mil itary infrastructure and public distraction. It will also cover the impa ct of war on the environment, as in the cases of military base pollution and nuclear/chemical warfare.

WB21	Caitlin McCulloch **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE

GVPT309M **Topics in International Relations; Egypt and Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT309N **Topics in International Relations; Scandinavia: Political Conflict: Past, Present and Future**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT309X **Topics in International Relations; Conflict Resolution - The Israeli Palestinian Experiment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

The study of topics in international relations.

Also offered as ISRL349X. Credit offered for GVPT309X or ISRL349X. This interactive course provides contending and shared perspectives of the cycles of war and peacebuilding with simulations. Topics include common ground on Jerusalem, Palestinian refugees, Jewish settlements, water, borders and security. Professor Kaufman has been Director of both the Truman Institute for the Advancement of Peace (Hebrew University of Jerusalem) and the Center for International Development and Conflict Management (UMD). He is concurrently teaching in Israel. Professor Hassassian has been Dean and Vice-President of Bethlehem University and is currently Palestinian Ambassador to the United Kingdom. For more information, contact kaufmane@umd.edu. Course preview is available on YouTube and internet: search for 'Israeli Palestinian Team Teaching'.

0501	M. Hassassian, Edward Kaufman **Meets June 17, 2019 - July 5, 2019** MTuWTh 6:00pm - 9:25pm	Seats (Total: 30) ESJ 1309
WB51	M. Hassassian, Edward Kaufman **Meets June 17, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

GVPT358A **Study Abroad Seminar in Political Science; Migration and Multiculturalism in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358M **Study Abroad Seminar in Political Science; Conflict and Peace in the Mediterranean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT359N **Topics in Comparative Politics; Nationalism and Ethnic Conflict**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in comparative politics.

Despite increasing global integration, identity-based conflicts persist throughtout the world. This course provides an overview of the comparati ve study of nationalism and ethnic conflict, juxtaposing classic texts f rom the nationalism literature with contemporary cases to illustrate key themes. The course is divided into two complementary parts: theories of nationalism and explanations of nationalist conflict. Beginning with a t heoretical exploration of the origins of national identity, the course a ddresses concepts including types of nationalism (ethnic, civic, revolu tionary, and couter-revolutionary); aims and goals of nationalist moveme nts (especially recognition, remedial policies, autonomy, and/or indepen dence); nationalism and rationality; the ethnic security dilemma; democr atization and nationalist conflict; colonial legacies; and structural so lutions to violent nationalism, culminating in discussion on the future of nationalism in light of increasing global interconnectedness.

WB21	Mary Kate Schneider	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

GVPT379F **Topics in American Politics; The Fringe in American Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in American politics.

This course introduces students to fringe ideas and actors active in America politics. Through an exploration of social and political movements, the course seeks to understand the different forms of political organization that operate outside the two major parties and the ideas or interests that underlie such organization. Additionally, the course explores the motivations for participation in fringe politics . Throughout the course, we will contrast the concepts of mainstream and fringe and critically assess the basis for such a distinction. Finally, the course explores the history of alternative political thought in America, the persistence of particular alternative ideologies, and the role of fringe in contemporary politics.

WB21	Catherine Aiken	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

GVPT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Government & Politics department; and junior standing or higher.

Contact department for information to register for this course.

GVPT388 **Topical Investigations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Contact department for information to register for this course.

GVPT388A **Topical Investigations; Film and the Study of Politics of Terror in the Family and the State**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

GVPT388A is an online course that looks at the dynamics of power, terrorand violence through the medium of film. We see films that highlight three levels of human relationships: the self, the group and the state. How does terror affect the self (for example the films Black Swan and Shutter Island); how does terror affect the group (for example, the films Hotel Rwanda and City of God); and how does terror affect the state (for example, the films District 9 and Munich). Students have six weeks to complete the course; but you can at your own pace, complete the course sooner.

WB11	James Glass	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

GVPT388W **Topical Investigations; Experiential Learning: Maryland, Public Policy and Beyond**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

WB21	Charles Hunt	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

GVPT389 **Experiential Learning II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Experiential credit for working in government & politics related internships, research, and teaching opportunities.

Contact department for information to register for this course.

GVPT399B **Seminar in Government and Politics; Salzburg Seminar: Global Change, Global Cooperation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399J **Seminar in Government and Politics; Global Change, Global Cooperation, Global News**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399Q **Seminar in Government and Politics; Security and Defense Policy in the European Union**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT458R **Special Topics in Study Abroad IV; Terrorism and Counterterrorism in International Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT808D **Selected Topics in Functional Problems in International Relations; Multi-Track Diplomacy: Transforming Violent Conflict**

Credits: 3 Grading Method: Regular, Audit

An examination of the major substantive issues in contemporary international relations.

This course aims to develop the concepts and professional skills needed to facilitate the transformation of local and societal conflict. Join us in online simulations using multi-track diplomacy to find common ground in both community conflict and ongoing societal conflict in the Middle East. The simulations will be facilitated by Prof. John Davies who has over 30 years' experience in using multi-track diplomacy in many countries suffering from war, terrorism, and instablity around the world . No pre-requisites.

0401	John Davies **Meets July 8, 2019 - July 26, 2019** MTuWTh 6:00pm - 9:20pm	Seats (Total: 20) ESJ 1309
WB41	John Davies **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 22) ONLINE

GVPT849 **Readings in Government and Politics**

Credits: 3 Grading Method: Regular, Audit

Guided readings and discussions on selected topics in political science

Contact department for information to register for this course.

GVPT898 **Pre-Candidacy Research; Pre-Candidacy Research**

Credits: 1-3 Grading Method: Regular, Sat-Fail

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

GVPT899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HACS ACES-Cybersecurity Summer 2019

HACS208F **Seminar in Cybersecurity; A Global Perspective on Security: France**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Contact department for information to register for this course.

HACS279 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 1-3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS287 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS297 **Cybersecurity Experience Reflection**

Credits: 3 Grading Method: Regular

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.

Cybersecurity experience is defined as an experiential learning activity either with a University of Maryland entity (such as the Division of Information Technology, the ACES competition team or in an ACES outreach program), or with an external organization that will provide valuable, hands-on experience to supplement the knowledge learned in the other ACES coursework.

WB11	Rebecca Thomas	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

HACS479 **Undergraduate Research in Cybersecurity**

Credits: 1-3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HESI Higher Ed, Student Affairs, and International Ed Policy Summer 2019

HESI217 **Introduction to Student Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Freshman standing; or sophomore standing.

Introduction to leadership theories, concepts, and skills. Completion of personal and leadership self-assessments, values exploration, and small group application.

Students must pay a $32 materials fee.

0401	Genevieve Hiltebrand	Seats (Total: 20)
	Meets July 8, 2019 - July 26, 2019	
	MTuWTh 9:00am - 12:15pm	TWS 1320

HESI221 **Leadership, Power and Privilege**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Critical analysis of social issues, contemplative practice, and dialogue are used to examine how power and privilege operate at individual, institutional, and societal levels to impact leadership perceptions and behaviors.

WB21	Anne Spear	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

HESI318A **Applied Contextual Leadership; Leadership and Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

This online course asks students to think about leadership in a new way by finding leadership lessons from film. Students will watch a number offilms (including some documentaries) and connect each of the films to leadership readings and personal experience.

WB11	Anne Spear	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

HESI318C **Applied Contextual Leadership; The Principles of Personal Excellence (Personal Leadership)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

The objective of this course will be to provide a comprehensive toolkit that students can use within any Meaningful Life Arena (MLA) for life-long personal leadership development and self-coaching.

WB21	Bruce Jackson	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

HESI318W **Applied Contextual Leadership; Leadership and the Workplace**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

This on-line course will use a variety of readings and discussion pieces to have students critically examine concepts of leadership in the world of work. Students must be employed or intern (full-time or part-time) during the Summer 2018 semester and must have a workplace that they visit on a regular basis, as they will be asked to connect course concepts to actual workplace experiences and will bring in workplace documents to the discussion. Internships may count toward this requirement.

WB21	Nancy Camarillo	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

HESI418 **Special Topics in Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Contact department for information to register for this course.

HESI418T **Special Topics in Leadership; Technology Beyond Borders: Service-Learning and Leadership across Cultural, Ethnic and Community Lines**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Contact department for information to register for this course.

HESP Hearing and Speech Sciences Summer 2019

HESP202 **Introduction to Hearing and Speech Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to communication sciences and disorders; a survey of th bases of normal speech, language and hearing ability, major forms of communicative disorders and their treatment.

WB11	Melissa Licata	Seats (Total: 20)	
	Meets May 28, 2019 - July 5, 2019		
	Class time/details on ELMs	ONLINE	

HESP307 **Speech & Hearing Science**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESP303.

Human hearing is exquisitely sensitive, allowing us to hear extremely faint sounds, to follow the sounds of a friend's voice in a loud party, and to appreciate subtle differences between words in the language. This course provides an introduction to the basic physics of sound, the acoustic properties of the sounds of speech, and the mechanisms by which those sounds are perceived by the listener.

PBH1	Kimberly Jenkins	Seats (Total: 40)	
	Meets May 28, 2019 - August 16, 2019		
	M 6:00pm - 9:00pm	TWS 0234	
	Class time/details on ELMs	ONLINE	Discussion
	Restricted to students in the Hearing and Speech Sciences In The Evening.		

HESP311 **Anatomy, Pathology and Physiology of the Auditory System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.

Gross anatomy of the ear and pathways for transmission of sound energy through the peripheral and central auditory system. Causes, development and effects of pathological conditions contributing to temporary or chronic hearing impairments.

0201	Sarah Sohns	Seats (Total: 20)	
	Meets July 8, 2019 - August 16, 2019		
	MW 9:00am - 12:30pm	HBK 1108	

HESP313 **Neurobiology for Speech and Hearing**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

This course is designed to provide an understanding of normal neuroanatomy and neurophysiology of speech and language. It will also provide preliminary information regarding pathologic processes, especially those affecting speech and language

PBH1	Jessica Duran	Seats (Total: 40)
	Meets May 28, 2019 - August 16, 2019	
	W 6:00pm - 8:30pm	TWS 0214
	Restricted to students in the Hearing and Speech Sciences In The Evening.	

HESP386 **Experiential Learning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.

Students will have the opportunity observe and/or participate in therapy activities provided by a speech-language pathologist or audiologist in this experiential learning course.

Contact department for information to register for this course.

HESP388 **Undergraduate Research Externship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and regional universities. Contact department chairman for openings and descriptions of eligible placements.

Contact department for information to register for this course.

HESP389 **LEAP Classroom Internship**

Credits: 1-3 Grading Method: Regular

Participation in a language-based, literacy-rich preschool classroom fo children with speech-language disorders. Students will learn behavior management techniques, curriculum planning and implementation, facilitation of play among children, data collection and teaching srategies.

Contact department for information to register for this course.

HESP499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP605 **Assessment & Intervention in Bilingual Populations**

Credits: 3 Grading Method: Regular

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program.

Integrates foundational knowledge pertaining to bilingualism in speech-language pathology. This course provides students with a framework for working with individuals from culturally and linguistically diverse backgrounds. This course is designed to educate and train student clinicians to serve as bilingual speech-language pathologists.

0201	Jose Ortiz	Seats (Total: 22)
	Meets July 8, 2019 - August 1, 2019	
	MTuWTh 12:00pm - 2:30pm	LEF 0135

HESP625 **Dysphagia**

Credits: 2 Grading Method: Regular

Restriction: Permission of BSOS-Hearing & Speech Sciences department; or must be in Hearing and Speech Sciences: M.A. (Master's) program.

Nature and clinical management of dysphagia as it pertains to different clinical settings for adult and pediatric populations.

0101	Yvette McCoy	Seats (Total: 21)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 11:00am - 1:30pm	LEF 1171

HESP627 **Augmentative and Alternative Communication**

Credits: 2 Grading Method: Regular

Recommended: Prior knowledge of Communication and its Disorders is required. Restriction: Permission of BSOS-Hearing & Speech Sciences department. Credit only granted for: HESP639R or HESP627.

Principles, methods, and procedures for categorizing, understanding, an developing augmentative and alternative communication.

An online course designed to provide an introduction to the principles, methods, and procedures for categorizing, understanding, and devloping augmentative and alternative communication (AAC) systems for persons with complex communication needs. All other course work is web online.

HY41	Tonya Williams-Walker	Seats (Total: 22)
	Meets July 8, 2019 - July 26, 2019	
	M 3:00pm - 6:00pm	JMZ 1224
	Class time/details on ELMs	ONLINE
	Class will meet in person on July 8, July 15 and July 22 from 3:00 PM - 6:00PM	

HESP634 **Anatomy and Physiology of the Auditory and Vestibular Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in HESP311, HESP407, and HESP411; or permission of instructor. Additional information: Fills a requirement for the Doctoral Program in Clinical Audiology (CAUD). Open to students in other graduate programs, especially NACS.

Comprehensive examination of the anatomy and physiology of the peripheral as well as the central auditory and vestibular systems. Both afferent and efferent pathways will be considered. Applications of basic auditory neuroscience to contemporary clinical audiology practice will be highlighted.

0201	Matthew Goupell	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 9:00am - 11:30am	LEF 1171

HESP635 **Aural Rehabilitation/Habilitation**

Credits: 3 Grading Method: Regular, Audit

Principles, methods and procedures for aural rehabilitation/habilitation in children and adults.

0101	Samira Anderson	Seats (Total: 27)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
	Recommended for Au.D. students.	

HESP638 **Research Practicum; Minor Research Problems**

Credits: 1-3 Grading Method: Regular, Audit

Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

Contact department for information to register for this course.

HESP648B **Clinical Practice in Speech**

Credits: 1-2 Grading Method: Regular, Audit

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

0102	Eliza Thompson **Meets May 28, 2019 - July 5, 2019** Th 9:30am - 10:50am Th 2:00pm - 2:50pm	Seats (Total: 5) Location: TBA LEF 0135
0103	Eusabia Mont **Meets May 28, 2019 - July 5, 2019** Th 9:30am - 11:00am Th 2:00pm - 3:00pm	Seats (Total: 5) Location: TBA LEF 0135
0104	Kristin Slawson **Meets May 28, 2019 - July 5, 2019** Th 9:30am - 11:00am Th 2:00pm - 3:00pm	Seats (Total: 5) Location: TBA LEF 0135
0105	Jose Ortiz **Meets May 28, 2019 - July 5, 2019** Th 9:30am - 11:00am Th 2:00pm - 3:00pm	Seats (Total: 5) Location: TBA LEF 0135
0106	Vivian Sisskin **Meets May 28, 2019 - July 5, 2019** Tu 2:00pm - 3:30pm	Seats (Total: 5) Location: TBA
0107	Kathryn Dow-Burger **Meets May 28, 2019 - July 5, 2019** Th 9:30am - 11:00am Th 2:00pm - 3:00pm	Seats (Total: 5) Location: TBA LEF 0135
0172	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Th 9:30am - 11:00am Th 2:00pm - 3:00pm	Seats (Total: 10) Location: TBA LEF 0135

HESP649A **Clinical Practice in Audiology**

Credits: 1-2 Grading Method: Regular, Audit

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

0101	Sarah Sohns **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0102	Christina Shields **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

HESP708 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Individual research projects under guidance of a faculty member.

Contact department for information to register for this course.

HESP728 **Advanced Clinical Practice in Speech**

Credits: 1-3 Grading Method: Regular, Audit

Clinical internship in selected off-campus facilities.

0119	Colleen Worthington **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0219	Colleen Worthington **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

HESP729 **Advanced Clinical Practice in Audiology**

Credits: 1-8 Grading Method: Regular, Audit

Clinical internship in selected off-campus facilities.

0101	Nicole Nguyen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0201	Nicole Nguyen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

HESP788 **Graduate Research Externship**

Credits: 1-3 Grading Method: Regular, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and other regional universities. Contact department chairman for available placements, requirements and openings.

Contact department for information to register for this course.

HESP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HESP829 **Clinical Internship Residency**

Credits: 1-9 Grading Method: Regular, Audit

Off-Campus, full-time (30-40 hours/week) clinical externship in Audiology at regional and national institutions.

I101	Nicole Nguyen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
I201	Nicole Nguyen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

HESP859 **Capstone Research Project II**

Credits: 2 Grading Method: Regular

Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.

Pre- or Corequisite: HESP849.

0112	Sandra Gordon-Salant **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0118	Matthew Goupell **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0122	Samira Anderson **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

HESP889 **Doctoral Candidacy Research**

Credits: 1-3 Grading Method: Regular

Doctoral candidacy paper research

Contact department for information to register for this course.

HESP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HESP899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HISP Historic Preservation Summer 2019

HISP319A **Special Topics in Historic Preservation; Anthracite Heritage Project**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Students will explore technical aspects of preservation taught by practitioners whose expertise are of special benefit to undergraduate students.

XI12	Instructor: TBA	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	MTuWThF 8:00am - 4:00pm	Location: TBA

HISP619A **Special Topics in Historic Preservation; Anthracite Heritage Project**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Technical aspects of preservation taught by practitioners whose expertise are of special benefit to certificate students.

XI12	Instructor: TBA	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	MTuWThF 8:00am - 4:00pm	Location: TBA

HISP619C **Special Topics in Historic Preservation; Cremona Preservation Plan**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Technical aspects of preservation taught by practitioners whose expertise are of special benefit to certificate students.

In consultation with the site administrators, and with reference to the stated vision to establish the Cremona property as both an environmental and historical preserve and educational facility, students will work as a team to prepare a draft preservation plan. The scope of work will include gathering together the existing property records, inventorying and assessing the condition of the structures and landscape features, conducting interview with stakeholders, carrying out original research as needed, documenting those results, and drafting the plan.

0601	Dennis Pogue	Seats (Total: 5)
	Meets July 29, 2019 - August 16, 2019	
	Contact instructor or department for details.	

HISP619Y **Special Topics in Historic Preservation; Understanding Place: Cultural Landscapes of Yorkshire: United Kingdom**

Credits: 3

Grading Method: Regular, Audit

Technical aspects of preservation taught by practitioners whose expertise are of special benefit to certificate students.

SAUK	Dennis Pogue **Meets May 21, 2019 - June 9, 2019** Contact instructor or department for details.	Seats (Total: 1)

HISP629 **Independent Studies in Historic Preservation**

Credits: 3 Grading Method: Regular, Audit

Individual Instruction course.

Contact department for information to register for this course.

HISP660 **Internship in Historic Preservation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Formerly: HISP619.

Students will secure a summer internship with an organization engaged in historic preservation work (this can be a public agency, nonprofit, or private firm). The students will formulate a plan of work and a series of pedagogical goals to satisfy both the practical needs of the project and the academic requirements for the course.

I101	Donald Linebaugh **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
I201	Donald Linebaugh **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

HISP701 **Certificate Portfolio Project**

Credits: 1 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program.

Students will gather samples of their work and craft a synthetic statement on their experiences in their HISP certificate courses (for example, picking up on themes such as community involvement, diversity of practice, affordable housing, or sustainability), and the ways in which they have integrated historic preservation into their thinking and practice in their home discipline.

0101	Donald Linebaugh **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Donald Linebaugh **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

HISP710 **Final Project in Historic Preservation I**

Credits: 1 Grading Method: Regular, Audit

Credit only granted for: HISP700 or HISP710. Formerly: HISP700.

An independent, applied research project investigating the preservation of a particular site or a specialized issue in historic preservation. This is part one of a two-semester sequence and involves developing the project proposal and bibliography.

0101	Donald Linebaugh **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Donald Linebaugh **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

HISP711 **Final Project in Historic Preservation II**

Credits: 2 Grading Method: Regular, Audit

Credit only granted for: HISP700 or HISP711. Formerly: HISP700.

An independent, applied research project invesitgating the preservation of a particular site or a specialized issue in historic preservation. This is part two of a two semester sequence and involves project research and writing.

0101	Donald Linebaugh **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Donald Linebaugh **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

HIST History Summer 2019

HIST134 **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHU, SCIS

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

0101	Michael Ross	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MW 5:30pm - 9:15pm	TWS 1100

HIST137 **Pursuits of Happiness: Ordinary Lives in the American Revolution**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Credit only granted for: HIST289E or HIST137. Formerly: HIST289E.

Investigates the search for personal fulfillment unleashed by the American Revolution; explores the many different meanings ascribed to the notion of the "pursuit of happiness" by Americans in the early national period.

WB31	Richard Bell	Seats (Total: 40)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

HIST200 **Interpreting American History: Beginnings to 1877**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU

Credit only granted for: HIST156 or HIST200. Formerly: HIST156.

The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.

0201	Robert Chiles	Seats (Total: 26)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 9:00am - 10:20am	KEY 0103

HIST201 **Interpreting American History: From 1865 to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU, DVUP

Credit only granted for: HIST157 or HIST201. Formerly: HIST157.

The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.

0201	Robert Chiles	Seats (Total: 29)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 11:00am - 12:20pm	KEY 0103

HIST219K **Special Topics in History; London and British Empire**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

HIST269A **Special Topics in Study Abroad II; Mexican Society: History and Gender Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269B **Special Topics in Study Abroad II; People and Cultures of Africa**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269C **Special Topics in Study Abroad II; Spanish Culture Civilization and Literature III: Modern Times**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269F **Special Topics in Study Abroad II; Sailors, Soldiers, Slaves: London**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269R **Special Topics in Study Abroad II; Latin American Social Revolutions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269T **Special Topics in Study Abroad II; London: Cultural Capital**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST299 **Directed Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Closely guided research in primary sources for students currently enrolled in selected 100- or 200-level surveys in the Department of History.

Contact department for information to register for this course.

HIST319W **Special Topics in History; One Hundred Years of Hollywood and Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as FILM329G. Credit granted for HIST319W or FILM329G.

WB31	Saverio Giovacchini	Seats (Total: 40)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

HIST328E **Selected Topics in History; The Politics of the Apocalypse: Imagining the World's End in Modern Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course will explore apocalyptic concerns in the modern era, focusing on three different, but increasingly interconnected, domains: religion, politics, and technology. Thinking about the "apocalypse," armageddon, "the end of days" - these are concepts that have developed in and through history, imagining a certain vision of humankind's end on earth. By exploring apocalyptic thinking, then, this course will also challenge students to see history itself as a bone of contention, a subject of interpretation, rather than a fixed story of progress toward a predetermined end.

WB61	Piotr H Kosicki	Seats (Total: 40)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

HIST328I **Selected Topics in History; A World of Warcraft: Video Games and the Reception of History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course takes a thematic approach to how history is both remembered and recreated through the medium of video games, such as Age of Empires, Total War, Assassin's Creed, and Civilization. In analyzing how these video games portray past wars and cultures, we will examine what really happened according to primary sources, as well as the benefits and pitfalls of recreating the past through popular media.

WB11	Jordan Slavik	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

HIST328J **Selected Topics in History; Princes on Instagram: Power and Self-Representation in the Modern World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

How do we represent ourselves to the world on Instagram, Facebook, Twitter, Snapchat? How do world leaders represent themselves to gain our support? This course explores how powerful figures-kings, queens, tsars, presidents, and first ladies-represent themselves publicly using ever evolving means of media.

WB11	Ala Creciun	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

HIST329B **Special Topics in History; Drugs in the Modern World: From Opium Wars to the War on Drugs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

WB21	Daniel Richter	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

HIST329K **History of Rock and Roll, 1950 - 2000**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH

This inter-disciplinary course will trace the development of American rock 'n' roll and popular music in the second half of the 20th century. Popular music will be studied both in terms of what it sounds like, and in terms of what it meant to the societies in which it was made and consumed. Special attention will be paid to the role of African-American cultural influences, as well as contributions made by European (mainly British) performers over the years.

WB41	Andrew Kellett	Seats (Total: 40)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

HIST330 **Europe in the Making: The Early Medieval West (A.D. 300-1000)**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Cross-listed with RELS340. Credit only granted for: HIST330 or RELS340

From one empire to another: Rome to Charlemagne. This period is approached as a crucible in which classical, Christian, and Germanic elements merged, yielding new experimental syntheses. This course will deal with issues of authority, cultural trends, and the formation of group solidarity.

WB41	Janna Bianchini	Seats (Total: 40)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

HIST357 **Recent America: 1945-Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or must have completed HIST157; or permission of instructor.

American history from the inauguration of Harry S. Truman to the presen with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.

WB51	Howard Smead	Seats (Total: 40)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

HIST360 **Women and the Civil Rights Movement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Twentieth-century U.S. civil rights movement from the vantage point of women, considering both women's involvement in the legal campaigns and political protests and the impact of civil rights struggles on women's condition, status, and identity.

Also offered as AASP498I and WMST498M. Credit granted for HIST360, AASP498I or WMST498M.

WB51	Elsa Barkley Brown	Seats (Total: 40)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

HIST369B **Special Topics in Study Abroad III; Brazil, Rio Film History and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST369G **Special Topics in Study Abroad III; Brazilian History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST369M **Special Topics in Study Abroad III; History of Medieval Italy: The World of Dante**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST369T **Special Topics in Study Abroad III; The Archaeological Exploration of Tel Burna**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-History department; and junior standing or higher.

The History Department's Internship program. Pre-professional experience in historical research, analysis, and writing in a variety of work settings.

Contact department for information to register for this course.

HIST398 **Honors Thesis I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Individual research and preparation of History Honors Theses.

Contact department for information to register for this course.

HIST469C **Study Abroad Special Topics IV; Spanish Culture Civilization and Literature III: Modern Times**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

HIST619 **Special Topics in History**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

HIST619A **Special Topics in History; Independent Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Contact department for information to register for this course.

HIST708 **Directed Independent Reading for Comprehensive Examinations I**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST709 **Directed Independent Reading for Comprehensive Examinations II**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations. In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST799 **Master's Thesis Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

HIST819 **Special Topics in History: Independent Research**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

Contact department for information to register for this course.

HIST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1 Grading Method: Regular

Contact department for information to register for this course.

HLSA Health Services Administration Summer 2019

HLSA300 **Introduction to Health Policy and Services**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.

A multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.

WB11	Luisa Franzini	Seats (Total: 60)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Students must have reliable internet access to complete this course. The class requires team-based projects that require working together. Students traveling who cannot commit to using the Eastern Time Zone for team meetings should not enroll.	

HLSA601 **Introduction to Health Systems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed HLTH740. Credit only granted for: HLSA601, HLTH688A, or HLTH740. Formerly: HLTH688A or HLTH740.

Management and leadership skills for effective public health planning, organization, management and administration. Emphasis is on the role of institutions in learning and behavioral change process, organizational theory, administration management, and coordinating provision of community health services.

PLH1	Negin Fouladi	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Part of the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health program.	

HLSA688 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

0102	Lori Simon-Rusinowitz **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0103	Neil Sehgal **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0104	Andrew Fenelon **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0106	Dylan Roby **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0107	Luisa Franzini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0108	Stephen Thomas **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Simon-Rusinowitz **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0204	Andrew Fenelon **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0206	Dylan Roby **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0209	Jie Chen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
PLH1	Negin Fouladi **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs *Restricted to students in the Master of Public Health Practice and or Policy and Graduate Certificate in Principles of Public Health program.*	Seats (Total: 5) ONLINE
PLH2	Negin Fouladi **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs *Restricted to students in the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health program.*	Seats (Total: 10) ONLINE

HLSA702 **Policy and Politics of Health**

Credits: 3 Grading Method: Regular, Audit

Organizational and financial components of the U.S. health care system, including social and political forces that bind the system. Advanced political analysis of the health care system, including key issues and problems.

PLH1	Lori Simon-Rusinowitz	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Restricted to students in the Master of Public Health Practice and Graduate Certificate in Principles of Public Health program.	

HLSA775 **Public Health Research**

Credits: 3 Grading Method: Regular

Prerequisite: EPIB650. Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Provides an interdisciplinary approach to gaining an understanding of and acquiring the skills to conduct public health research. This course covers policy and social issues, theory, and methods of evaluation and participatory research, from simple community based health programs to large-scale interventions. The course emphasizes experimental and quasi-experimental designs to estimate program impact as well as evaluation of program implementation. Case studies drawn from the public health field illustrate various types of evaluations and participatory research initiatives. Lectures, interactive discussions, group projects, individual projects and related assignments.

PLH1	Negin Fouladi	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Restricted to students in the Master of Public Health Practice and Graduate Certificate in Principles of Public Health program.	

HLSA778 **Internship in Public Health**

Credits: 1-4 Grading Method: Regular, Audit

Internship providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization.Setting of the internship will depend upon the student's background and career goals

0102	Lori Simon-Rusinowitz **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0103	Neil Sehgal **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0105	Michel Boudreaux **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0106	Dylan Roby **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0107	Luisa Franzini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0108	Stephen Thomas **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0109	Jie Chen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0110	Eva DuGoff **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0111	Kellee White **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0202	Lori Simon-Rusinowitz **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0203	Neil Sehgal **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0205	Michel Boudreaux **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0206	Dylan Roby **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0207	Luisa Franzini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0208	Stephen Thomas **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0209	Jie Chen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0210	Eva DuGoff **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0211	Kellee White **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
PLH1	Negin Fouladi **Meets May 29, 2019 - August 16, 2019** Class time/details on ELMs *Restricted to students in the Master of Public Health Practice and Graduate Certificate in Principles of Public Health program.*	Seats (Total: 20) ONLINE

HLSA785 **Internship in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department. Credit only granted for: HLSA785 or HLSA778.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0102	Lori Simon-Rusinowitz **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0103	Neil Sehgal **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0104	Andrew Fenelon **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0106	Dylan Roby **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0107	Luisa Franzini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0108	Stephen Thomas **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0110	Eva DuGoff **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0111	Susan Passmore **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0202	Lori Simon-Rusinowitz **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0204	Andrew Fenelon **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0206	Dylan Roby **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0209	Jie Chen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0210	Eva DuGoff **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0211	Susan Passmore **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
PLH1	Negin Fouladi **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs *Restricted to students in the Master of Public Health Practice and Graduate Certificate in Principles of Public Health program.*	Seats (Total: 20) ONLINE

HLSA786 **Capstone Project in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0102	Lori Simon-Rusinowitz **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0103	Neil Sehgal **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0104	Andrew Fenelon **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0106	Dylan Roby **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0107	Luisa Franzini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0108	Stephen Thomas **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0110	Eva DuGoff **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0202	Lori Simon-Rusinowitz **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0204	Andrew Fenelon **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0206	Dylan Roby **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0209	Jie Chen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0210	Eva DuGoff **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0211	Susan Passmore **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
PLH1	Negin Fouladi **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs *Restricted to students in the Master of Public Health Practice and Graduate Certificate in Principles of Public Health program.*	Seats (Total: 20) ONLINE

HLSA799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

0102	Lori Simon-Rusinowitz **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0103	Neil Sehgal **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0104	Andrew Fenelon **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0106	Dylan Roby **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

0107	Luisa Franzini **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0108	Stephen Thomas **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Simon-Rusinowitz **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0204	Andrew Fenelon **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0206	Dylan Roby **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0209	Jie Chen	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

HLSA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSA899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLTH Health Summer 2019

HLTH106 **Drug Use and Abuse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

WB31	Alyssa Brooks	Seats (Total: 55)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

HLTH124 **Introduction to Behavioral and Community Health**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.

Required of first semester Community Health majors to expose them to introductory-level concepts within the field of behavioral and community health as well as the Community Health degree program. Includes discussion on the delivery of behavioral and community health at the local, state, national, and global levels; career opportunities in the diverse sectors of the community health field; undergraduate programmatic information; and strategies for student success.

Restriction waived; open to all students.

WB31	M Reynolds	Seats (Total: 30)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

HLTH140 **Personal and Community Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

WB31	James Butler	Seats (Total: 50)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

HLTH200 **Introduction to Research in Community Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Community Health program.

An overview of specific components and steps involved in the community health research process. Content includes, foundations of research, sampling, measurement design, and analysis in a community context.

Restriction waived; open to all students.

WB21	Juliette Christie	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

HLTH366 **Behavioral and Community Issues in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.

The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.

WB21	Evelyn King-Marshall **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE

HLTH377 **Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

WB31	Elizabeth Aparicio **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 150) ONLINE
WB41	Samantha Smith **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 130) ONLINE

HLTH386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of SPHL-Behavioral & Community Health department. Restriction: Junior standing or higher.

0103	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 8)
0203	Tracy Kennedy **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
I109	Donna Howard **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

HLTH389 **Topical Investigations**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH389I **Topical Investigations; An International Perspective of Violence: Comparing Italy, France and the U.S.: Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH399 **Community Health Field Work**

Credits: 1-6 Grading Method: Regular

Students will gain practical experience under conditions conducive to educational and professional development. The internship is a supervised period of community/public health activities, carried out in a relevant professional organization, that emphasizes the application of theory and previous coursework.

Please contact the instructor for course meeting days/times.

WB11	Tracy Kennedy **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB21	Tracy Kennedy **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE

HLTH471 **Women's Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Restriction: Must be in a major within the SPHL-Behavioral & Community Health department; or must be in a major within the ARHU-Women's Studies department. Cross-listed with WMST471. Credit only granted for: HLTH471 or WMST471.

The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

For the summer, restriction is not in effect. Students of all majors are eligible to register and take this course.

WB31	Tracy Zeeger	Seats (Total: 50)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

HLTH476 **Death Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of the genesis and development of present day death attitudes and behavior by use of a multidisciplinary life cycle approach.

WB31	Jennifer Hodgson	Seats (Total: 40)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

HLTH489 **Field Laboratory Projects and Workshop**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

A course designed to meet the needs of persons in the field with respect to workshop and research projects in special areas of knowledge not covered by regularly structured courses.

0202	Bradley Boekeloo	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

HLTH491 **Community Health Internship**

Credits: 12 Grading Method: Regular

Prerequisite: Must have completed HLTH490 with a C- or higher. Restriction: Must have completed all program requirements and be in the last semester of the Community Health degree program.

Integrating theory with practice in a community health setting.

0101	Tracy Kennedy	Seats (Total: 30)
	Meets May 23, 2019 - August 23, 2019	
	W 10:00am - 1:00pm	SPH 0307
	Contact instructor or department for details.	
	Semester runs May 23 through August 23. Seminars dates/locations are TB	

HLTH498T **Special Topics in Health; Medical Terminology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

"On-line course"

WB21	Katherine Sharp	Seats (Total: 125)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

HLTH665 **Health Behavior I**

Credits: 3 Grading Method: Regular, Audit

The psychological, social psychological, and sociological theories of health behavior. The relation of health knowledge, beliefs, attitudes, intentions, and behavior to preventive, illness, sick-role, and health utilization behaviors.

PLH1	Sharon Desmond	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Part of the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health program.	

HLTH688 **Special Problems in Health Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

HLTH778 **Internship in Public Health**

Credits: 1-4 Grading Method: Regular

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0101	Tracy Zeeger	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

HLTH785 **Internship in Public Health**

Credits: 3 Grading Method: Regular

Prerequisite: HLTH665, HLTH775, and HLTH780; or permission of SPHL-Behavioral & Community Health department. Credit only granted for: HLTH785 or HLTH778.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0101	Tracy Zeeger	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

HLTH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLTH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLTH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

IDEA Academy for Innovation & Entrepreneurship Summer 2019

IDEA210 **Innovation + Sustainability: Designing your own Sustainable Future**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: CPSP249E or IDEA210.

This hands-on, project-based course tackles the intersection of environment, creativity, and business to develop sustainable solutions to pressing environmental problems. Students work in teams and use design thinking and other human-centered methods to address real-world design challenges. Students will integrate entrepreneurial methods to shape their college and career journey towards a more sustainable future and learn how to motivate and empower others to adopt more sustainable behaviors.

YS41	Mira Azarm, Brooke Smith	Seats (Total: 10)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 9:30am - 12:30pm	ESJ 2101
	This section is part of Terp Young Scholars. Enrollment by permission only. Email summer@umd.edu for further information.	

INAG Institute of Applied Agriculture Summer 2019

INAG099 Cooperative Education

Credits: 0 | Grading Method: Sat-Fail

0201	Meredith Epstein	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

INAG299A Supervised Work Experience; Internship I

Credits: 1 | Grading Method: Regular

Prerequisite: Advisor's approval.

I201	Geoffrey Rinehart	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	
I202	Meredith Epstein	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	
I203	Kenneth Ingram	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

I205	Heather McHale **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 15)
I206	Roy Walls **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

INAG299B **Supervised Work Experience; Internship II**

(Perm req)

Credits: 1 Grading Method: Regular, Sat-Fail

Prerequisite: Advisor's approval. Pre-corequisite: INAG299A.

I201	Geoffrey Rinehart **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I202	Meredith Epstein **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I203	Kenneth Ingram **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I204	Larisa Cioaca **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I205	Heather McHale **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
I206	Roy Walls **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

INFM Information Management Summer 2019

INFM719 **Independent Study**

Credits: 1-3 Grading Method: Regular

Intensive individual study under faculty supervision.

Contact department for information to register for this course.

INFM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Intensive individual research course under the supervision of a faculty member.

0103	Brian Butler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0111	Paul Jaeger **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0124	Jessica Vitak **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0211	Paul Jaeger **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

INST Information Studies Summer 2019

INST126 **Introduction to Programming for Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in MATH115; or must have math eligibility of MATH140 or higher; or permission of instructor. Restriction: Must not have completed INST326; and must be in Information Science program.

An introduction to computer programming for students with very limited or no previous programming experience. Topics include fundamental programming concepts such as variables, data types, assignments, arrays, conditionals, loops, functions, and I/O operations.

WB11	Jennifer Proctor **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

INST201 **Introduction to Information Science**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS

Credit only granted for: INST201 or INST301. Formerly: INST301.

Examining the effects of new information technologies on how we conduct business, interact with friends, and go through our daily lives. Understanding how technical and social factors have influenced the evolution of information society. Evaluating the transformative power of information in education, policy, and entertainment, and the dark side of these changes.

WB11	Courtney Douglass **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

INST309 **Independent Study in Information Science**

Credits: 3 | Grading Method: Regular

Individual independent study of an aspect of information science, selected according to student interest and need in consultation with a member of the iSchool faculty. Repeatable to 6 credits if content differs.

0104	Joel Chan **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0118	Ping Wang **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0204	Joel Chan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0218	Ping Wang **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

INST311 **Information Organization**

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); or must be concurrently enrolled in INST201 or INST301. Restriction: Must be in Information Science program.

Examines the theories, concepts, and principles of information, information representation and organization, record structures, description, and classification. Topics to be covered in this course include the methods and strategies to develop systems for storage, organization, and retrieval of information in a variety of organizational and institutional settings, as well as policy, ethical, and social implications of these systems.

HY11	Katy Lawley	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	MW 9:30am - 11:45am	PLS 1117
	Class time/details on ELMs	ONLINE

INST314 **Statistics for Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in INST201; or must have completed or be concurrently enrolled in INST301. And minimum grade of C- in INST201 and INST301; and MATH115; and STAT100; and minimum grade of C- in MATH115 and STAT100. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Basic concepts in statistics including measure construction, data exploration, hypothesis development, hypothesis testing, pattern identification, and statistical analysis. The course also provides an overview of commonly used data manipulation and analytic tools. Through homework assignments, projects, and in-class activities, you will practice working with these techniques and tools to create information resources that can be used in individual and organizational decision-making and problem-solving.

HY11	Shawn Janzen	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 9:00am - 12:00pm	HBK 1108
	Class time/details on ELMs	ONLINE

INST327 **Database Design and Modeling**

Credits: 3 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: Minimum grade of C- in INST126. And 1 course with a minimum grade of C- from (INST201, INST301); or must be concurrently enrolled in INST201 or INST301. Restriction: Must be in Information Science program. Credit only granted for: INST327 or BMGT402.

Introduction to databases, the relational model, entity-relationship diagrams, user-oriented database design and normalization, and Structured Query Language (SQL). Through labs, tests, and a project, students develop both theoretical and practical knowledge of relational database systems.

0201	Pamela Duffy	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	MTuWTh 9:30am - 11:45am	ASY 3203

INST352 **Information User Needs and Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST311. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Focuses on use of information by individuals, including the theories, concepts, and principles of information, information behavior and mental models. Methods for determining information behavior and user needs, including accessibility issues will be examined and strategies for using information technology to support individual users and their specific needs will be explored.

WB21	Rachel Gammons	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

INST462 **Introduction to Data Visualization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST126, INST314, MATH115, PSYC100, and STAT100. Restriction: Must be in Information Science program.

Exploration of the theories, methods, and techniques of visualization of information, including the effects of human perception, the aesthetics of information design, the mechanics of visual display, and the semiotics of iconography.

WB11	Jennifer Golbeck	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

INST466 **Technology, Culture, and Society**

Credits: 3 Grading Method: Regular, Audit General Education: DVCC

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301). Restriction: Permission of INFO-College of Information Studies.

Individual, cultural, and societal outcomes associated with development of information & communication technologies (ICTs), including pro- and anti-social factors. Unpacking how gender, race, ethnicity, sexual orientation, disabilities, and political affiliations affect consumption and production of online experiences. Unpacking how structures of dominance, power and privilege manifest at individual, institutional and cultural levels.

WB21	Shawn Janzen, Sarah Gilbert	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

INST620 **Diverse Populations, Inclusion, and Information**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC620 OR INST620. Formerly: LBSC620.

Importance of equality of information access. Social, political, and technological barriers to information. Information needs of diverse and underrepresented populations. Principles of inclusive information services.

WB21	Renee Hill	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

INST633 **Analyzing Social Networks and Social Media**

Credits: 3 Grading Method: Regular

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC708L or INST633. Formerly: LBSC708L.

Introduces students to the science and social science of network analysis. Through real world examples, including analysis of their own social networks, students will develop skills for describing and understanding the patterns and usage of services like Facebook, Twitter, YouTube, and others. Students will read classic and cutting edge articles and books about these topics and discuss their applicability to this new social media. The class will culminate with a capstone project in which students will apply the analysis methods they have learned to understanding a particular question about social networks and social media.

WB11	Jennifer Golbeck	Seats (Total: 30)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

INST650 **Facilitating Youth Learning in Formal and Informal Environments**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST650 or LBSC640. Formerly: LBSC640.

The historical, organizational, and contemporary contexts of formal and informal learning spaces; the principles of teaching, learning, and information literacy that underlie the formal and informal learning spaces; and the leadership role that information professionals can play within their schools, libraries and communities.

ML01	Renee Hill	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

INST709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision. Registration limited to the advanced student with the approval of the advisor and of the faculty member involved.

0104	Joel Chan	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
0113	Jennifer Golbeck	Seats (Total: 3)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

0204	Joel Chan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0215	Beth St Jean **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)
0223	Bill Kules **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0226	Niklas Elmqvist **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)

INST717 **Internship Practicum in Human-Computer Interactions**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST631 and INST632. Recommended: INST701. Restriction: Permission of INFO-College of Information Studies; and must be in Human-Computer Interaction (Master's) program.

Required, supervised experience working in an industry, government, non-profit organization or an educational institution to address a problem in Human-Computer Interaction. Students will spend a minimum of 120 hours working in the agency during the internship.

This course will meet on campus on May 30th from 3-6pm and August 13-15, between 3pm-6pm. Please contact the instructor for additional details.

WB11	Evan Golub **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

INST728A **Special Topics in Information Studies; Data Integration and Preperation for Analytics**

Credits: 3 Grading Method: Regular, Audit

Selected topics in information studies.

WB11	David Patrick	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

INST728J **Special Topics in Information Studies; CSS/HTML Basics**

Credits: 3 Grading Method: Regular, Audit

Selected topics in information studies.

WB21	Pratima Kshetry	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

INST729E **International Opportunities in Information Studies; Great Cathedral Libraries of England**

Credits: 3 Grading Method: Regular, Audit

Short term, experiential course offered in conjuction with the University's Study Abroad Office, to volunteer, complete a project, or conduct research in a library or information organization outside the U.S. Focus and location varies.

Contact department for information to register for this course.

INST799 **Master's Thesis Research**

Credits: 1 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

INST810 **Individual Research Experience**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: INST810 or LBSC810. Formerly: LBSC810.

Pre-candidacy individual research experience directed by a faculty member.

Contact department for information to register for this course.

INST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

INST899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0101	Jennifer Preece **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0103	Brian Butler **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0105	Amanda Lazar **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 4)
0108	Douglas Oard **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0112	Renee Hill **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0116	Vanessa Frias-Martinez **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0121	Katie Shilton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0130	Richard Marciano **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0131	Yla Tausczik **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0145	Tamara Clegg **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0203	Brian Butler **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0205	Amanda Lazar **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 4)
0208	Douglas Oard **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0216	Vanessa Frias-Martinez **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)
0217	John Bertot **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0221	Katie Shilton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0224	Jessica Vitak **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)
0230	Richard Marciano **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0231	Yla Tausczik **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

ISRL349X **Investigating Topics in Israel Studies; Conflict Resolution - The Israeli Palestinian Experiment**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as GVPT309X. Credit granted for ISRL349X or GVPT309X. This interactive course provides contending and shared perspectives of the cycles of war and peacebuilding with simulations. Topics include common ground on Jerusalem, Palestinian refugees, Jewish settlements, water, borders and security. Professor Kaufman has been Director of both the Truman Institute for the Advancement of Peace (Hebrew University of Jerusalem) and the Center for International Development and Conflict Management (UMD). He is concurrently teaching in Israel. Professor Hassassian has been Dean and Vice-President of Bethlehem University and is currently Palestinian Ambassador to the United Kingdom. For more information, contact kaufmane@umd.edu. Course preview is available on YouTube and internet: search for 'Israeli Palestinian Team Teaching'.

0501	M. Hassassian, Edward Kaufman **Meets June 17, 2019 - July 5, 2019** MTuWTh 6:00pm - 9:25pm	Seats (Total: 30) ESJ 1309
WB51	M. Hassassian, Edward Kaufman **Meets June 17, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

JAPN Japanese Summer 2019

JAPN101 **Elementary Japanese I**

Credits: 6 | Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.

Introduction to basic patterns of contemporary spoken Japanese and to the two phonetic syllabaries (Katakana and Hiragana).

0101	Makiko Inoue, Kumiko Akikawa **Meets May 28, 2019 - July 5, 2019** MTuWThF 9:30am - 12:30pm	Seats (Total: 15) JMZ 1224

JAPN102 **Elementary Japanese II**

Credits: 6 | Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN101; or appropriate Foreign Language Placement Test (FLPT) score.

Continued introduction to the basic spoken patterns of contemporary Japanese.

0201	Etsuko Yamakita	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 9:30am - 12:30pm	JMZ 1224

JAPN499T **Directed Study in Japanese; Experiencing Japanese Life: Language and Culture in Kyoto and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JOUR Journalism Summer 2019

JOUR150 **Introduction to Mass Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSSP

Additional information: Not applicable toward journalism major.

Survey of the functions and effects of the mass media in the United States. A consumer's introduction to newspapers, television, radio, film, sound recording, books, magazines, and new media technology.

WB41	Denitsa Yotova	Seats (Total: 18)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE
WB61	Denitsa Yotova	Seats (Total: 18)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
YS41	Christine Harvey	Seats (Total: 6)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 10:00am - 1:00pm	KNI 2103
	This section is part of Terp Young Scholars. Enrollment by permission only. Email summer@umd.edu for further information.	

JOUR175 **Media Literacy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE, D General Education: DSSP, DVUP

Additional information: Not applicable toward journalism major.

An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.

This is a completely online course with both synchronous and asynchronous elements. Students are required to login at the time specified for the discussion section but additional work outside of this time is required as well.

WB31	Susan Moeller	Seats (Total: 20)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE
	Mandatory synchronous online meetings on Tuesday 5/28, Monday 6/3, Monday 6/10, all from 6:00pm - 7:00pm EST. Online, real-time ELMS "Chat" office hours for conversation with students, on Tuesdays, from 9:30 - 10:30 am EST, and other times as needed.	

JOUR199 **Survey Apprenticeship; Survey Apprenticeship**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

College-monitored experience in approved mass-communications organizations and industries.

I101	Adrianne Flynn	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

JOUR201 **News Writing and Reporting I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENGL101, JOUR181, and JOUR200; and permission of JOUR-Philip Merrill College of Journalism. Restriction: For students intending to be journalism majors; and permission of JOUR-Philip Merrill College of Journalism.

Introduction to news for the print and electronic media, development of new concepts: laboratory in news-gathering tools and writing skills. Students who earned 80% or higher on the JOUR181 diagnostic are exempt from the JOUR181 prerequisite.

0101	Carole Lee	Seats (Total: 17)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 10:00am - 11:45am	KNI 2105

JOUR361 **Television Reporting and Production**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR262 and JOUR360.

Writing and editing for the broadcast media. Interpretive and documentary news stories.

0101	Mary Burns	Seats (Total: 4)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 10:30am - 1:40pm	KNI 2103
	Course may meet some days in Washington, D.C. or Annapolis as a part of field coverage.	

JOUR396 **Supervised Internship**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Must have earned a grade of C- or better in JOUR320 or JOUR360. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR326, JOUR366, or JOUR396.

Students will complete a minimum of 90 hours in a supervised journalism internship over a minimum of 10 weeks in spring and fall, and eight weeks in summer. Emphasis is on relating academic training to professional experience. Students may pick up an internship proposal form in KNI 1100, have their internship supervisor fill it out, and meet with the college's internship director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted. This requirement would affect incoming freshmen from the fall 2012 class.

I101	Adrianne Flynn	Seats (Total: 70)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

JOUR398 **Independent Study**

Credits: 1-3 Grading Method: Regular

Individual projects in journalism.

Contact department to make arrangements. Consult in JRN 1117 for section code corresponding to faculty member.

Contact department for information to register for this course.

JOUR434 **Salzburg Seminar: Global Media Literacy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVUP

Restriction: Must be in Salzburg Academy program. Jointly offered with JOUR734. Credit only granted for: JOUR434 or JOUR734.

An advanced analysis of the information, values underlying messages conveyed via television, newspapers, the Internet, magazines, radio and film from a cross-cultural perspective. Examines the accuracy of messages and explores how distinctive global media shape views of politics culture and society with nations, across regions and internationally.

Contact department for information to register for this course.

JOUR435 **Salzburg Seminar: Global Change, Global Cooperation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVUP

Restriction: Must be in Salzburg Academy program. Jointly offered with JOUR735. Credit only granted for: JOUR435 or JOUR735.

Practical and theoretical examination of a global problem (or problems) of contemporary importance from a cross-cultural, perspective. Analytical framework used to examine how media shape global problems, events and/or issues regionally.

Contact department for information to register for this course.

JOUR458I **Special Topics in Journalism; Social Media's Influence on Society, Culture and Social Change**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Issues of special concerns and current interest.

This class will provide students with a foundational, historical and theoretical understanding of social media and social networks so they can better understand social medias implications on contemporary society, culture, communities and media. At the end of this course, students will have a strong understanding of the following: the evolution of social media platforms; social medias impact on society, culture and social change; the basics of social network analysis; social medias role in todays media and journalism landscape.

WB11	Brooke Auxier	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

JOUR661 **Television Reporting and Production**

(Perm req)

Credits: 3 | Grading Method: Regular

Prerequisite: JOUR603; or students who have taken courses with comparable content may contact the department. Restriction: Must not be in Journalism Studies (Doctoral) program.

Reporting, writing, editing and production of broadcast news.

0101	Mary Burns	Seats (Total: 8)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 10:30am - 1:40pm	KNI 2103
	Course may meet some days in Washington, D.C. or Annapolis as a part of field coverage.	

JOUR698 **Special Problems in Communication**

Credits: 1-3 Grading Method: Regular, Audit

Independent study in area of the student's interest.

Contact department for information to register for this course.

JOUR734 **Salzburg Seminar: Global Media Literacy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Salzburg Academy program. Jointly offered with JOUR434. Credit only granted for: JOUR434 or JOUR734.

An advanced analysis of the information, values and underlying messages conveyed via television, newspapers, the Internet, magazines, radio and film from a cross-cultural perspective. Examines the accuracy of messages and explores how distinctive global media shape view of politics, culture and society within nations, across regions and internationally.

Contact department for information to register for this course.

JOUR735 **Salzburg Seminar: Global Change, Global Cooperation**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Salzburg Academy program. Jointly offered with JOUR435. Credit only granted for: JOUR435 or JOUR735.

Practical and theoretical examination of a global problem (or problems) of contemporary importance from a cross-cultural, perspective. Analytical framework used to examine how media shape global problems, events and/or issues regionally.

Contact department for information to register for this course.

JOUR798 **Master's Professional Fieldwork**

Credits: 1-6 Grading Method: Sat-Fail

Research for and preparation of news articles or programs for use in th media. Analysis of fieldwork experience using communication theory and research results. Fieldwork may be done independently or as an internship. Repeatable to a maximum of six credits.

Contact department for information to register for this course.

JOUR799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

JOUR888 **Doctoral Professional Field Work**

Credits: 3-9 Grading Method: Regular, Audit

Critical analysis of a phase of a professional field in journalism and public communication. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

JOUR889 **Doctoral Tutorial in Journalism and Public Communication**

Credits: 3-9 Grading Method: Regular, Audit

Individual research in journalism and public communication.

Contact department for information to register for this course.

JOUR898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

JOUR899 **Doctoral Dissertation Research in Journalism and Mass Communication**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

JWST Jewish Studies Summer 2019

JWST289J **Jerusalem in Antiquity: The History of Sacred Space in a Holy City**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP, SCIS

Also offered as RELS289J. Credit only granted for JWST289J or Rels289J. This course surveys the religious, political, archaeological. and cultural history of Jerusalem over three millennia as a symbolic focus of three faiths: Judaism, Christianity, and Islam. Students will gain an understanding of the present-day conflict between Israel and Palestine, including relevant diplomatic texts, and will analyze the points of contention and possible solutions in the conflict.

WB31	Robert Cargill	Seats (Total: 50)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

JWST369A **Special Topics in Study Abroad III; The Holocaust: 20th Century Jewish Thought**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

JWST369T **Special Topics in Study Abroad III; The Archaeological Exploration of Tel Burna**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

JWST799 **Masters Thesis Research**

Credits: 1-6 | Grading Method: Regular, Sat-Fail

Research and Writing the Masters Thesis in Jewish Studies.

0201	Hayim Lapin	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

KNES Kinesiology Summer 2019

KNES131V **Physical Education Activities: Coed; Beginning Jogging**

Credits: 2 | Grading Method: Regular, Pass-Fail

Attendance is required beginning the first day of class. Students must pay $40 instructional materials fee.

WB11	Andrew Ginsberg, Andrea Romeo	Seats (Total: 75)	
	Meets May 28, 2019 - July 5, 2019		
	Class time/details on ELMs	ONLINE	

KNES134O **Physical Education Activities: Coed; Bowling (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Students must pay a $40 facility fee plus bowling shoes are required.

0401	Timothy Henkel	Seats (Total: 30)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 8:00am - 10:00am	SSU B0106C	Lab

KNES137N **Physical Education Activities: Coed; Golf (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required beginning the first day of class. Students must pay a $40 instructional materials fee.

0401	Jeff Maynor	Seats (Total: 24)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:00am - 11:00am	GLF 1102	Lab

KNES146F **Physical Education Activities: Coed; Recreational SCUBA (Beginner)**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Basic swimming ability. Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee. Students will also be expected to pass a medical examination; details can be obtained by the instructor in advance of class.

0101	Joshua Dykman	Seats (Total: 8)	
	Meets May 28, 2019 - July 5, 2019		
	MW 6:00pm - 8:30pm	ERC B0136	

KNES157N **Physical Education Activities: Coed; Weight Training (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required beginning the first day of class. Students must pay $40 instructional materials fee.

0201	Kyle Pietro	Seats (Total: 30)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWTh 1:00pm - 2:20pm	SPH 0103	Lab

KNES161T **Physical Education Activities: Coed; Yoga (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required beginning the first day of class. Students must pay $40 instructional materials fee.

0101	Shilpa Reddy	Seats (Total: 35)	
	Meets May 28, 2019 - July 5, 2019		
	MWTh 9:00am - 11:00am	SPH 0107	Lab

KNES200 **Introduction to Kinesiology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Kinesiology program; and freshman standing. Or must not be in Kinesiology program; and must have less than 60 credits. Credit only granted for: KNES200 or KNES289M.

An overview of kinesiology, the interdisciplinary study of physical activity. Examines human motor behavior and its cultural forms such as sport from the physiological, psychological, sociological, historical, philosophical, and biomechanical perspectives.

YS41	Jo Zimmerman	Seats (Total: 18)	
	Meets July 8, 2019 - July 26, 2019		
	MTuWThF 9:00am - 11:30am	SPH 1312	
	TuTh 1:00pm - 4:00pm	SPH 0225	Lab
	This section is part of Terp Young Scholars. Enrollment by permission only.		

KNES201 **Kinesiological Principles of Physical Activity**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

WB11	Steven Kahl	Seats (Total: 40)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

KNES287 **Sport and American Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

WB31	David Andrews	Seats (Total: 75)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

KNES289 **Topical Investigations**

(Perm req)

Credits: 1-3 | Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES293 **History of Sport in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

WB61	Brandon Wallace	Seats (Total: 75)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

KNES300 **Biomechanics of Human Motion**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

Students must pay a $50 laboratory fee.

0201	Ross Miller	Seats (Total: 20)	
	Meets July 8, 2019 - August 16, 2019		
	MW 9:00am - 11:30am	SPH 1303	
	Class time/details on ELMs	ONLINE	
	MW 12:00pm - 2:30pm	SPH 0223	Lab

KNES342 **Sport, Commerce, and Culture in the Global Marketplace**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: KNES287. Credit only granted for: KNES389A or KNES342. Formerly: KNES389A.

The Sport, Commerce, and Culture in the Global Marketplace study abroad program is designed for students who are interested in the relationship between sport, culture, and the contemporary global economy.

Contact department for information to register for this course.

KNES350 **The Psychology of Sports**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

WB21	J Carson Smith	Seats (Total: 75)	
	Meets July 8, 2019 - August 16, 2019		
	Class time/details on ELMs	ONLINE	

KNES355 **Sport Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES355 or KNES498M.

Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.

Prerequisite: KNES287 with a C- or better.

WB11	Stephen McDaniel **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE	

KNES360 **Physiology of Exercise**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

Students must pay a $50 laboratory fee. Please note, for Summer Term 2016, restrictions will not apply.

0101	Steven Prior, Sarah Glancy, Sushant Ranadive **Meets May 28, 2019 - July 5, 2019** MWF 9:00am - 11:30am TuTh 8:00am - 10:00am	Seats (Total: 20) SPH 1312 SPH 0125	 Lab
0102	Steven Prior, Sushant Ranadive, Sarah Glancy **Meets May 28, 2019 - July 5, 2019** MWF 9:00am - 11:30am TuTh 10:00am - 12:00pm	Seats (Total: 20) SPH 1312 SPH 0125	 Lab

0103	Steven Prior, Sarah Glancy, Sushant Ranadive **Meets May 28, 2019 - July 5, 2019** MWF 9:00am - 11:30am TuTh 12:00pm - 2:00pm	Seats (Total: 20) SPH 1312 SPH 0125	 Lab
0104	Steven Prior, Sarah Glancy, Sushant Ranadive **Meets May 28, 2019 - July 5, 2019** MWF 9:00am - 11:30am TuTh 2:00pm - 4:00pm	Seats (Total: 20) SPH 1312 SPH 0125	 Lab

KNES370 **Motor Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

Please note, for Summer Term, restrictions will not apply.

WB11	Tim Kiemel **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 50) ONLINE

KNES385 **Motor Control and Learning**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Kinesiology department.

Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.

Please note, for Summer Term, restrictions will not apply.

WB21	Rodolphe Gentili	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs Contact instructor or department for details.	ONLINE

KNES389 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES389K **Topical Investigations; Kinesiological Sciences Internship**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: KNES major and relevant KNES major classes.

Contact department for information to register for this course.

KNES405 **Principles & Techniques of Manual Muscle Testing**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI201, BSCI202, and KNES300.

It is critical for sports medicine and sport performance specialists to understand the location and inter-relationships of the structures of the body that impact human movement. Thus, the primary purpose of this course is to facilitate an in-depth, understanding of the muscles of the body. Specifically, students will learn the origins, insertions, primary and secondary functions, as well as nervous innervations of the major muscle groups of the body. In addition, students will develop palpation skills and learn to grade the function of each muscle through manual muscle testing techniques. These skills form the foundation for assessing functional movement as well as performing safe and effective manual therapy techniques. Thus, while the focus of the class will be to develop sound, introductory palpation and manual muscle testing skills, basic principles of functional movement and manual therapy will also be addressed through hands-on application as well as case study.

0301	Joanne Klossner	Seats (Total: 20)
	Meets May 28, 2019 - June 14, 2019	
	MTuWThF 12:00pm - 3:00pm	SPH 0301

KNES462 **Neural Basis of Human Movement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI202, KNES385, and BSCI201; or permission of SPHL-Kinesiology department.

An introduction to the neural substrates which underlie postural and volitional movement. Neuroanatomical and neurophysiological basis of motor functioning; past and present conceptualizations of motor control and coordination; movement disorders; and maturation of the neuromuscular system.

WB11	Rodolphe Gentili **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 45) ONLINE

KNES497 **Kinesiology Senior Seminar**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: A professional writing course with a minimum grade of C-; and must have completed 6 KNES core courses and 2 KNES option courses, all with a C- or higher; and must have completed STAT100 with a C- or better. Restriction: Senior standing or higher; and must be in Kinesiology program; and permission of department.

Discussions of contemporary issues vital to the discipline, critiques of research in the student's area/areas of special interest, completion of a major project where the student will be asked to demonstrate the ability to carry out investigative processes in problem solving and critical writing under faculty direction.

Summer enrollment is by permission only. Please contact an advisor (advisingknes@umd.edu) if you are interested in enrolling in Kinesiology Senior Seminar.

Click here for more information.

0109	Jo Zimmerman **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details. *Exercise & Brain Health: From Psychobiology to Behavior.*	Seats (Total: 10)
0110	Evan Brody **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details. *Applied Sport and Exercise Psychology for Practitioners*	Seats (Total: 10)

KNES498 **Special Topics in Kinesiology; Special Topics in Kinesiology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES689 **Special Problems in Kinesiology**

(Perm req)

Credits: 1-4 Grading Method: Regular

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

KNES689I **Special Problems in Kinesiology; Teaching Secondary Physical Education**

Credits: 3 Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

A focus on content development and implementation, teacher effectiveness grounded in data analysis, and assessment of student learning in middle and secondary schools.

Contact department for information to register for this course.

KNES689V **Special Problems in Kinesiology; Teaching Elementary Physical Education**

Credits: 3 Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

A focus on developmentally appropriate content development and implementation, navigating the instructional, managerial and social task systems using effective teaching behaviors and enhancing student learning through an interdisciplinary approach in elementary schools.

Contact department for information to register for this course.

KNES778 **Internship in Physical Activity and Public Health**

Credits: 1-4 Grading Method: Regular

The internship is a time-limited, supervised period of public/community health activities carried out in a health or allied health organization involved with physical activity. Students gain practical experience in areas such as program planning and implementation, program evaluation, public policy analysis, research, and management.

I101	Shannon Jette	Seats (Total: 5)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

KNES789 **Advanced Projects in Kinesiology**

Credits: 1-3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

Contact department for information to register for this course.

KNES798 **Internship in Physical Education/Sports Management**

Credits: 1-8 Grading Method: Regular, Audit

Practical application of previously acquired skills and knowledge in a sport and/or physical education setting. Emphasis on selected experiences to enhance the total academic program of the student. The internship site assignment will depend upon student's background and career goals.

Contact department for information to register for this course.

KNES799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

KNES898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0101	James Hagberg	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
0201	James Hagberg	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

KNES899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

LARC Landscape Architecture Summer 2019

LARC151 **Urban Agriculture: Designing and Assessing Edible Landscapes**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Students will examine the growing development of urban agriculture and edible landscapes. Urban agriculture has seen a recent growth and interest in cities across the globe. From Paris to New York, from Baltimore to Detroit, urban agriculture is an emerging land use to address a variety of needs. Redevelopment, food deserts, community engagement and environmental justice are just some of the issues and topics that are connected to the recent growth of urban agriculture. This course will take a critical examination of urban agriculture's contribution to the food system, its input and outputs in the urban landscape, and the planning and design of urban agriculture and edible landscapes.

WB31	Amy Marin, Eric Samet-Shaw **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB41	Amy Marin, Eric Samet-Shaw **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB51	Amy Marin, Eric Samet-Shaw **Meets June 17, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE

LARC160 **Introduction to Landscape Architecture**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU, DSSP

History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences.

WB51	Colleen Vacelet **Meets June 17, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE

WB61	Colleen Vacelet	Seats (Total: 20)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

LARC188A **Special Topics in Landscape Architecture; Italy: Terrapin Take Off: Public Spaces: Then and Now**

Credits: 3 Grading Method: Regular

A lecture course for students interested in Landscape Architecture to cover topics not formally taught in existing courses. An introductory class on a group of closely-related topics for students with an interest in this discipline.

Contact department for information to register for this course.

LARC451 **Sustainable Communities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Explores concepts, strategies and examples of community design which address the needs of a growing population while preserving the environment and its resources.

Contact department for information to register for this course.

LARC471 **Capstone Studio: Community Design**

Credits: 5 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: LARC440; and LARC470. Restriction: Senior standing; and must be in Landscape Architecture program.

A capstone experience that emphasizes the integration of critical thinking skills and methodologies introduced throughout the landscape architecture curriculum. Students apply design and analysis methodologies, evaluate alternative solutions, involve community residents and engage in final design development, using the master plan and site design process, report writing, and oral and graphic presentations. Final presentations are open to the university and the community.

Contact department for information to register for this course.

LARC489A **Special Topics in Landscape Architecture; Italy: Architecture and Music**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Contact department for information to register for this course.

LARC489C **Special Topics in Landscape Architecture**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Contact department for information to register for this course.

LARC489K **Special Topics in Landscape Architecture; Design Discovery UK: London and North Yorkshire**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Contact department for information to register for this course.

LARC489O **Special Topics in Landscape Architecture; Computer-Aided Design and Drafting (CADD): Urban Construction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

WB41	Christopher Ellis	Seats (Total: 20)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

LARC499 **Independent Studies in Landscape Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular

Independent studies in landscape architecture including field, studio o library research under the direction of a faculty member.

Contact department for information to register for this course.

LARC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.

Contact department for information to register for this course.

LBSC Library Science Summer 2019

LBSC602 **Serving Information Needs**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC602, or both LBSC601 and LBSC650.

An introduction to the skills necessary to interact directly with individuals through the exploration of user behavior theory, strategies to locate and evaluate information from print and electronic resources, and policies and procedures to ensure that all individuals can become information literate.

WB11	Jennifer Sturge	Seats (Total: 25)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

LBSC631 **Achieving Organizational Excellence**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC631 or LBSC635.

Overview of the principles, practices, and techniques required for effective leadership and management. The innovative strategies, management responsibilities, and skills needed to achieve and sustain high organizational performance in information-based cultural institutions.

WB21	Ryan O'Grady	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

LBSC646 **Literature and Materials for Young Adults**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC646 or LBSC746. Formerly: LBSC746.

Survey of literature and other materials for older children and adolescents. Criteria for evaluating and using such materials as they relate to the needs, interests, reading abilities, and other capabilities of young readers.

CT01	Deborah Taylor **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs *Class time/details on Elms.*	Seats (Total: 16) ONLINE
WB11	Deborah Taylor **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE

LBSC671 **Creating Information Infrastructures**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC671, or LBSC670 and LBSC690.

Foundations of acquiring and managing collections, information structures, indexing and discovery systems needed by information professionals. An introduction to the theoretical concepts, trends, systems, and technologies central to the information field.

WB21	David Patrick **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

LBSC707 **Field Study in Information Service**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC602, LBSC671, and LBSC631; and must have completed an additional 9 credits. Or permission of instructor. Restriction: Must be in Library and Information Science (Master's) program; and permission of INFO-College of Information Studies.

Supervised internship experience in a library, archive, museum, or other information organization.

WB11	Suzy Wilson **Meets May 28, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

LBSC709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision.

Contact department for information to register for this course.

LBSC741 **Seminar in School Library Administration**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST650; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Development, management, and evaluation of school library programs at all levels.

CT21	Michelle Hamiel	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

LBSC749 **Internship in School Libraries**

Credits: 1-6 Grading Method: Regular, Audit

Opportunities to observe and participate in the operation of school libraries at the elementary and secondary levels under the supervision of certified school librarians. Required of all School Library Media certification candidates.

WB11	Renee Hill	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

LBSC791 **Designing Principled Inquiry**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC671, LBSC602, and LBSC631; and additional 9 credits of coursework applied to the MLIS degree. Or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Critical analysis of roles of information professions and institutions in integrating theory, methods, practice, policies, and values of the field, and applying them to the design of future information systems and services.

WB11	Ursula Gorham-Oscilowski	Seats (Total: 30)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

LBSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Intensive research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

LGBT Lesbian Gay Bisexual Transgender Studies — Summer 2019

LGBT285 **Homophobia in the U.S. Society in the New Millennium**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP, SCIS

Credit only granted for: LGBT285 or LGBT289I. Formerly: LGBT289I.

An interdisciplinary investigation of the evolving forms of homophobia that continue to thrive and grow in the contemporary U.S., despite historical gains. Special attention to manifestations of homophobia in U.S. social, cultural, political, and legal arenas such as: popular culture/media, religious and cultural/ethnic communities, state and federal legislation, and queer subcultures. Focus on students' powers and responsibilities within struggles to end discrimination based on sexuality.

WB41	Alexis Lothian	Seats (Total: 60)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

LGBT327 **Lesbian, Gay, Bisexual, and Transgender Film and Video**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHU, DVUP

Restriction: Junior standing or higher.

Comparative analysis of forms, themes, and the politics of representation in film and video by and/or about LGBT people.

Also offered as ENGL359F. Credit granted for LBGT327 or ENGL359F.

WB31	Anna Storti **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB41	James Goodwin **Meets July 8, 2019 - July 26, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

LGBT386 **Lesbian, Gay, Bisexual, and Transgender Community Organization Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular General Education: DSSP, DVCC

Prerequisite: 9 credits in LGBT courses. Restriction: Permission of LGBT Studies Program.

Supervised internship experience with a community organization that expressly serves lesbian, gay, bisexual, and transgender people. Students will be expected to relate course material to experience in an analysis of an organization's activities.

Contact department for information to register for this course.

LING Linguistics Summer 2019

LING200 **Introductory Linguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Credit only granted for: HESP120 or LING200. Additional information: Does not count toward the Linguistics major and does not fulfill prerequisite requirements for all upper-level courses.

An exploration of the nature of human language, designed for non-majors Introduction to the basic concepts and methodology of modern linguistic analysis (sound systems, word formation, sentence structure). Additional topics may include: semantics, pragmatics, social aspects of language, dialects, language change, acquisition, writing systems, typology, language universals, comparison with other communication systems, etc.

WB11	Michelle Morrison **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 20) ONLINE

LING499 **Directed Studies in Linguistics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING689 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Independent studies in grammatical theory.

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 2)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 2)

LING698 **Directed Study**

(Perm req)

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

LING798 **Research Papers in Linguistics**

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

LING799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING889 **Directed Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

LING896 **Research Paper in Minor Area**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING888.

This course is designed to strengthen the students' ability to do research in a minor area of expertise, and to help them create a publishable piece. In addition, the course constitutes part of a set of requirements to advance to doctoral candidacy.

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 1)
0201	Instructor: TBA **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)

LING898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

LING899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MATH Mathematics Summer 2019

MATH107 **Introduction to Math Modeling and Probability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSMA

Prerequisite: Must have math eligibility of Math 107 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Restriction: Not open to students majoring in mathematics, engineering, business, life sciences, and the physical sciences;; and must not have completed MATH120, MATH130, MATH136, or MATH140; and must not have completed MATH220; and must not have completed any MATH or STAT course with a prerequisite of MATH120, MATH130, MATH136, MATH140 or MATH220. Credit only granted for: STAT100, MATH107, MATH110, MATH111, MATH112, or MATH113. Formerly: Math 110 and Math 111. Additional information: Students who have credits for MATH107 may not also receive credits for STAT100, MATH110, MATH 111, MATH112, or MATH113.

A goal is to convey the power of mathematics as shown by a variety of problems which can be modeled and solved by quantitative means. Also included is an introduction to probability. Topics include data analysis, equations, systems of equations, inequalities, elementary linear programming, Venn diagrams, counting, basic probability, permutations, combinations, tree diagrams, standard normal and normal distributions. The mathematics of finance is covered. The course includes problem solving and decision making in economics, management, and social sciences.

0102	Patrick Daniels	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 9:30am - 10:50am	MTH 0101

MATH113 **College Algebra and Trigonometry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH113 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH 003 with appropriate eligibility. Restriction: Must not have completed MATH115, MATH120, MATH130, MATH136, or MATH140; and must not have completed any course with a prerequisite of MATH120, MATH130, MATH136, MATH140 or MATH220; and must not have completed MATH112 or MATH220. Credit only granted for: Students who have credits for MATH113 may not also receive credits for MATH107, MATH110, MATH112, or MATH115.

Topics include elementary functions including graphs and applications of: polynomial, rational, exponential, and logarithmic functions. Systems of equations and applications. Trigonometric functions: angle and radian measure, graphs and applications.

0101	Karen McLaren	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 11:00am - 12:20pm	MTH 0306
0201	Dani Kaufman	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 11:00am - 12:20pm	MTH 0411

MATH115 **Precalculus**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113. Restriction: Must not have completed MATH140; and must not have completed any MATH or STAT course with a prerequisite of MATH140. Credit only granted for: Students who have credits for MATH115 may not also receive credits for MATH112 or MATH113.

Preparation for MATH120, MATH130 or MATH140. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.

0101	Raluca Rosca **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 25) MTH 0402
0201	Nakyung Lee **Meets July 8, 2019 - August 16, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 25) MTH B0423
CP01	Timothy Pilachowski **Meets June 24, 2019 - July 26, 2019** MTuWThF 9:00am - 11:00am *This secion is for Bridge Program students. Restricted to students in the Summer Bridge Program.*	Seats (Total: 20) MTH 0403

MATH120 **Elementary Calculus I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR, FSMA

Prerequisite: 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115). Or must have math eligibility of MATH120 or higher; and math eligibility is based on the Math Placement Test. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences. Credit only granted for: MATH120, MATH130, MATH136, MATH140, or MATH220. Formerly: MATH220.

Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications.

0101	Priyankur Chaudhuri **Meets May 28, 2019 - July 5, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 27) MTH 0305
0201	Mestiyage Gunatilleka **Meets July 8, 2019 - August 16, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 27) MTH 0304

MATH140 **Calculus I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Credit only granted for: MATH120, MATH130, MATH136, MATH140 or MATH220.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

0101	Tao Zhang **Meets May 28, 2019 - July 19, 2019** MTuWThF 8:00am - 9:20am	Seats (Total: 20) MTH 0106
0102	Sahil Chopra **Meets May 28, 2019 - July 19, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 20) MTH 0106
0103	Zachary Greenberg **Meets May 28, 2019 - July 19, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) MTH 0106

MATH141 **Calculus II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or 1 course with a minimum grade of B- from (MATH130, MATH136); and permission of CMNS-Mathematics department. Credit only granted for: MATH121, MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

0101	Cara Peters **Meets May 28, 2019 - July 19, 2019** MTuWThF 8:00am - 9:20am	Seats (Total: 27) MTH 0401
0102	Bo Tian **Meets May 28, 2019 - July 19, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 27) MTH 0401

0103	Martin Molina Fructuoso **Meets May 28, 2019 - July 19, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 27) MTH 0401

MATH206 **Introduction to Matlab**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH136, MATH140). Credit only granted for: CMSC206, CMSC298M, MATH206, or MATH299M.

This course is intended to prepare students for subsequent courses requiring computation with MATLAB. Covers basics of MATLAB including simple commands, variables, solving equations, graphing differentiation and integration, matrices and vectors, functions, M-files and fundamentals of programming in the MATLAB environment. When offered in Winter and Summer terms, the course is offered in a format suitable for online distance learning.

WB21	Justin Wyss-Gallifent **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 70) ONLINE

MATH240 **Introduction to Linear Algebra**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141). Credit only granted for: MATH240, MATH341, or MATH461.

Basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms.

0101	S Gilles **Meets May 28, 2019 - July 19, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) MTH 0409
0102	Weikun Wang, Xin Dong **Meets May 28, 2019 - July 19, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) CHM 0127

MATH241 **Calculus III**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

0101	Jacky Chong **Meets May 28, 2019 - July 19, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 25) PHY 1219
0102	David Russell **Meets May 28, 2019 - July 19, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 20) MTH 0201

MATH246 Differential Equations for Scientists and Engineers

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

0101	Siddharth Sharma **Meets May 28, 2019 - July 5, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 27) MTH 0105
0102	Brandon Alexander **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 27) CHM 0119
0201	Justin Wyss-Gallifent **Meets July 8, 2019 - August 16, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 25) MTH 0304

MATH310 Introduction to Mathematical Proof

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and must have completed or be concurrently enrolled in MATH240, MATH341, or MATH461; and must have completed or be concurrently enrolled in MATH241 or MATH340. Restriction: Must be in a major within the CMNS-Mathematics department. Credit only granted for: MATH307 or MATH310. Additional information: Math majors may not use this course to satisfy an upper-level requirement.

To develop the students' ability to construct a rigorous proof of a mathematical claim. Students will also be made aware of mathematical results that are of interest to those wishing to analyze a particular mathematical model. Topics will be drawn from logic, set theory, structure of the number line, elementary topology, metric spaces, functions, sequences and continuity.

0101	Manoussos Grillakis **Meets May 28, 2019 - July 5, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 20) MTH B0427
0201	Steven Chadwick **Meets July 8, 2019 - August 16, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 20) MTH 0306

MATH401 **Applications of Linear Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Various applications of linear algebra: theory of finite games, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks and transportation problems.

0101	Allan Yashinski **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) MTH 0101

MATH406 **Introduction to Number Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH241, MATH246, MATH340, MATH341, MATH461); or permission of CMNS-Mathematics department.

Integers, divisibility, prime numbers, unique factorization, congruences, quadratic reciprocity, Diophantine equations and arithmetic functions.

0201	Niranjan Ramachandran	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 11:00am - 12:20pm	MTH 0305

MATH410 **Advanced Calculus I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department.

First semester of a year course. Subjects covered during the year are: sequences and series of numbers, continuity and differentiability of real valued functions of one variable, the Riemann integral, sequences of functions and power series. Functions of several variables including partial derivatives, multiple integrals, line and surface integrals. The implicit function theorem.

0101	Nathan Manning	Seats (Total: 28)
	Meets May 28, 2019 - July 19, 2019	
	MTuThF 11:00am - 12:20pm	MTH 1313

MATH461 **Linear Algebra for Scientists and Engineers**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and must have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH240, MATH341, or MATH461. Additional information: This course may not be used towards the upper level math requirements for MATH/STAT majors.

Basic concepts of linear algebra. This course is similar to MATH 240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form.

0101	Terence Long	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 9:30am - 10:50am	MTH 0103
0201	Kendall Williams	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 9:30am - 10:50am	MTH 0105

MATH462 **Partial Differential Equations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH246, MATH341).

Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations. Introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation. Boundary value problems, initial value problems and initial-boundary value problems.

0201	Amin Gholampour	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 9:30am - 10:50am	MTH 0102

MATH478R **Selected Topics For Teachers of Mathematics; Rational Numbers and Early Algebra for Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MATH480 **Algebra for Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH214. Restriction: Must be a middle school teacher; and permission of CMNS-Mathematics department. Credit only granted for: MATH480 or MATH483. Additional information: Not applicable to MATH/STAT major or minor requirements.

Prepares teachers with elementary certification to teach Algebra 1 in middle school. Focuses on basic algebra concepts and related theoretical ideas.

Contact department for information to register for this course.

MATH498 **Selected Topics in Mathematics**

Credits: 1-9 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the departmental committee on undergraduate studies.

0210	Jacob Bedrossian	Seats (Total: 10)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

MATH498A **Selected Topics in Mathematics**

(Perm req)

Credits: 1-9 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the departmental committee on undergraduate studies.

Contact department for information to register for this course.

MATH689 **Research Interactions in Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

MATH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MATH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MATH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MIEH Maryland Institute for Applied Environmental Health Summer 2019

MIEH300 **A Public Health Perspective: Introduction to Environmental Health**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132; and must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must have earned a minimum of 60 credits. And must be in Public Health Science program; or permission of SPHL-School of Public Health. Credit only granted for: SPHL498N or MIEH300. Formerly: SPHL498N.

Environmental health is that branch of public health that deals with the human health effects of exposure to chemical, physical, and biological agents in the community, workplace, and home. Activities within Environmental Health Sciences are associated with recognizing, assessing, understanding, and mitigating the impacts of chemical, physical, and biological agents as well as understanding how human behavior and action impacts the environment. This course focuses on the central concepts, principles, issues, and applications of the essential scientific components and strategies of control of major environmental health problems.

WB11	Kendall Bustad	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

MIEH309 **Environmental Health Research**

Credits: 1-3 Grading Method: Regular

This research-based course will provide undergraduates with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

Contact department for information to register for this course.

MIEH325 **Introduction to Clinical Research Methods**

Credits: 3 Grading Method: Regular, Audit

Introduction to Clinical Research Methods will provide students an opportunity to learn about both the development and implementation of a clinical research study and a variety of methods utilized for sample collection. Students will review topics including an overview of bioethics in research, especially as pertains to use of human subjects, the basics of study design, and data entry and the importance of good record keeping in an in-person, discussion-based class portion. Students will also be trained in and have the opportunity to practice basic clinical research methods including phlebotomy, taking nose and throat swabs, taking basic vitals, and other methods. By the end of the course, students will be certified to perform phlebotomy at the University of Maryland with the potential be become a certified Phlebotomy Technician.

HY21	Jennifer German	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	TuTh 9:00am - 12:00pm	SPH 0307
	Class time/details on ELMs	ONLINE

MIEH400 **Introduction to Global Health**

Credits: 3 Grading Method: Regular General Education: DVUP

Prerequisite: Minimum grade of C- in MIEH300; and 1 course with a minimum grade of C- from (SPHL100, PHSC300). Restriction: Must be in the Public Health Science program or must have permission of the program director; and must have completed 60 credits. Credit only granted for: MIEH400 or SPHL498A. Formerly: SPHL498A.

Exploration of theoretical frameworks and practical perspectives on issues shaping the global health panorama. Determinants examined through: biological and epidemiological; social, cultural and economic; environmental and geographic; multi-section, legal and institutional perspectives with synopsis of how these issues are addressed by international and community organizations in developing countries.

WB21	Amir Sapkota	Seats (Total: 60)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

MIEH600 **Foundations of Environmental Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: HLTH761 or MIEH600. Formerly: HLTH761.

Overview of the chemical, physical and biological hazards present in our living and working environment and their effects on human health. Topics include: exposure assessment, industrial hygiene and safety, pesticides, community and indoor pollution, food-borne diseases, solid and hazardous wastes, water resources, risk assessment, ecological issues and environmental laws.

PLH1	Paul Turner	Seats (Total: 40)
	Meets June 27, 2019 - August 10, 2019	
	Class time/details on ELMs	ONLINE
	Part of the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health program.	

MIEH607 **Global Classroom: Risk Based Approach to Ensure Global Food Safety and Security**

Credits: 3 Grading Method: Regular, Audit

Students will have the opportunity to collaborate with Cairo University and the Agriculture Research Center in Egypt to explore the current status and challenges of global food safety and security.

GH11	Muhiuddin Haider **Meets May 28, 2019 - July 5, 2019** MW 10:00am - 12:00pm Class time/details on ELMs	Seats (Total: 15) SPH 2234CC ONLINE

MIEH609 **Methods in Environmental Health**

Credits: 1-3 Grading Method: Regular

This research-based rotation in environmental health sciences will provide graduate students with the opportunity to work closely with faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research experience and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0101	Paul Turner **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0107	Lesliam Quiros Alcala **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

MIEH698A **Special Topics in Environmental Health; Bolivia: Global Health lessons in ecotourism and community health**

Credits: 3 Grading Method: Regular, Audit

Special topics in environmental health.

Also offered as EPIB489A and EPIB689A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

MIEH698B **Special Topics in Environmental Health; Law, Public Health, and the Cuban Family**

Credits: 3 Grading Method: Regular, Audit

Special topics in environmental health.

Contact department for information to register for this course.

MIEH785 **Internship in Public Health**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of SPHL-Maryland Institute for Applied Environmental Health. Credit only granted for: MIEH785 or MIEH778.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Contact department for information to register for this course.

MIEH786 **Capstone Project in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0101	Paul Turner **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0107	Lesliam Quiros Alcala **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0201	Paul Turner **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0207	Lesliam Quiros Alcala **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

MIEH788 **Critical Readings in Environmental Health**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

In-depth examination and critical discussion of the current literature relevant to environmental health.

0101	Paul Turner **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0102	Amir Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0107	Lesliam Quiros Alcala **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0204	Donald Milton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0207	Lesliam Quiros Alcala **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

MIEH789 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Individual reading and/or research under a specific faculty member in the department.

Contact department for information to register for this course.

MIEH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MIEH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0101	Paul Turner **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0102	Amir Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0107	Lesliam Quiros Alcala **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

MIEH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0101	Paul Turner **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0103	Amy Sapkota **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0107	Lesliam Quiros Alcala **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

0205	Robin Puett **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0207	Lesliam Quiros Alcala **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

MLAW MPower Undergraduate Law Programs Summer 2019

MLAW298M **Special Topics in Legal Studies; Mock Trial**

Credits: 3 Grading Method: Regular

Substantive and experiential approaches to legal phenomena. Topics vary.

Experience the excitement and reward of arguing, and perhaps winning your client's case in court! Mock Trial is designed to introduce students to the key principles of trial advocacy through a "learn by doing" approach to instruction. While classes will include explanatory lectures, the emphasis will be on learning through student exercises and by students observing and analyzing the performances of others. This hands-on course will culminate in two mock trials where students will serve as attorneys and witnesses.

YS41	Erica Smith **Meets July 8, 2019 - July 26, 2019** MTuWThF 10:00am - 1:00pm *This section is part of Terp Young Scholars. Enrollment by permission only.*	Seats (Total: 20) CBD 1140

MLAW358A **Selected Topics in Law and Society; Human Trafficking in Context: Reactions to Human Trafficking in Thailand and Cambodia**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

Contact department for information to register for this course.

MLAW388 **Law and Society Internship**

Credits: 1-4 Grading Method: Regular

Participation in the Law and Society Internship (LASI) offers students the opportunity to enhance their education through practical skill building in the realm of law-related professionals.

Restricted to students in the Law and Society minor.

WB11	Brandee Pettus	Seats (Total: 35)
	Meets May 28, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

MOCB Molecular and Cell Biology Summer 2019

MOCB699 **Laboratory Rotation**

Credits: 2-3 Grading Method: Sat-Fail

Laboratory experience in molecular-cell biology.

Contact department for information to register for this course.

MOCB899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0101	Instructor: TBA	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
0182	Daniel Nelson	Seats (Total: 5)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	
0201	John Moult	Seats (Total: 2)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	
0206	Louisa Wu	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

0263	Zhongchi Liu **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0277	Volker Briken **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

MUSC School of Music Summer 2019

MUSC140 **Music Fundamentals I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSSP

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.

WB31	Quinn Dizon **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

MUSC205 **History of Popular Music, 1950-Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.

WB31	Elizabeth Massey **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

MUSC220 **Selected Musical Cultures of the World**

Credits: 3 | Grading Method: Regular | CORE: HA, D | General Education: DSHU, DVUP

Credit only granted for: MUET220 or MUSC220. Formerly: MUET220.

A survey of selected musical cultures of the world, such as India, Japan, China, Indonesia, West Africa, Eastern Europe and the Near East.

WB41	William Scally	Seats (Total: 40)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

MUSC269A **Special Topics in Study Abroad II; Enhancing Spanish Language and Cultural Knowledge Through Music**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC269I **Special Topics in Study Abroad II; History of Italian Music**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC388 **Music Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Pre-professional field work in music.

Contact department for information to register for this course.

MUSC389 **Music Internship Analysis; Music Internship Analysis**

(Perm req)

Credits: 1 Grading Method: Regular

Documentation and evaluation of field work experience.

Contact department for information to register for this course.

MUSC448 **Selected Topics in Music**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MUSC499 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent research on a topic chosen in consultation with the instructor, which may culminate in a paper or appropriate project.

Contact department for information to register for this course.

MUSC699 **Selected Topics in Music**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MUSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MUSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

NFSC Nutrition and Food Science Summer 2019

NFSC100 **Elements of Nutrition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

WB11	Margaret Udahogora	Seats (Total: 35)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

NFSC103 **Nutrition and Sports Performance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Nutrition and Sports Performance would give students a brief overview of positive health-related outcomes of a physically active lifestyle. Students would design a fitness regimen and be able to describe when and how glycogen, blood glucose, fat, and protein are used to meet energy needs during different types of physical activity. They would be able to differentiate between anaerobic and aerobic use of glucose, and identify advantages and disadvantages of each. This course would outline how to estimate and athlete's calorie need and discuss the general principles for meeting overall nutrient requirements in the training diet. The problems associated with rapid weight loss by dehydration and the importance of water and/or sports drinks during exercise would be examined. An understanding of the importance of staying well-nourished with carbohydrate, protein, and various vitamins and minerals before, during, and after training would be discussed.

WB21	Saira Khan	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

NFSC490 **Special Problems in Nutrition**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: NFSC440; and permission of AGNR-Nutrition and Food Science department.

Individually selected problems in the area of human nutrition.

Contact department for information to register for this course.

NFSC498A **Selected Topics; Individual Study**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498G **Selected Topics; Ghana: A Feed the Future Classroom**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498M **Selected Topics; Health Implications of the Mediterranean Diet and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC678A **Selected Topics in Nutrition**

Credits: 1-6 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

0201	Robert Jackson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0226	Seong-Ho Lee **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

NFSC699 **Problems in Nutrition and Food Science**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.

Contact department for information to register for this course.

NFSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.

Contact department for information to register for this course.

NFSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

First and second semesters. Oral reports on special topics or recently published research in nutrition. Distinguished scientists are invited as guest lecturers. A maximum of three credits allowed for the M.S.

0101	Robert Jackson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0103	Qin Wang **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0115	Liangli Yu **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0116	Robert Buchanan **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0121	Rohan Tikekar **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0133	Shaik Rahaman **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Robert Jackson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0203	Qin Wang **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0215	Liangli Yu **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0216	Robert Buchanan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

NFSC899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PHIL Philosophy Summer 2019

Click here for detailed course descriptions.

PHIL100 Introduction to Philosophy

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.

An introduction to philosophy that focuses on three central themes in Western philosophy: the nature of death and the possibility of an afterlife (e.g. would immortality in paradise be desirable?), the nature of minds and artificial intelligence (e.g. is the rise of artificial intelligence an existential threat to humankind?), and finally, the ethics of life and death (e.g. is it wrong to have children?)

WB61	Jimmy Licon	Seats (Total: 30)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

PHIL140 Contemporary Moral Issues

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.

An introduction to the tools and concepts of ethics (and ethical argumentation) through a survey of three topics of current relevance: (i) our relation to the environment; (ii) communities and migration; (iii) technology and privacy.

WB51	Quinn Harr	Seats (Total: 30)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

PHIL170 Introduction to Logic

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR

Development of analytical reasoning skills through study of formal logics, reasoning systems, and fallacious inference patterns.

WB51	Christopher Masciari	Seats (Total: 30)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

PHIL204 **Happiness**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Credit only granted for: PHIL209E or PHIL204. Formerly: PHIL209E.

What does the discipline of philosophy teach us about happiness? This course explores how philosophers have addressed questions about the nature of happiness and its role in the good human life. Questions to be addressed include: what is it to be happy? What social, economic, and political institutions foster and support human happiness? Can an immoral person be happy? And is a happy life the same as a meaningful life?

HY31	Heather Adair, Julius Schoenherr	Seats (Total: 30)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs Contact instructor or department for details.	ONLINE
	This class will meet face-to-face only the first 7 days, from 10am-1pm. The next 7 days will be online only.	

PHIL220 **Bioethics: Regulating Right and Wrong**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DSSP

Credit only granted for: PHIL209A or PHIL220. Formerly: PHIL209A.

Bioethicists formulate ethical guidelines. They answer questions such as: When life-saving health resources are scarce, who should get them? Should we increase supply of one such resource, kidneys, by buying them from living "donors"? If drug trials in developing countries benefit patients who consent to participate, are the trials ethical, even if the same research would be forbidden in the US? If a sick person aims to hasten her death, how, if at all, might her doctor permissibly help her? In this course, students construct and defend ethical rules in four domains: research ethics, allocation of scarce resources, markets in organs, and physician-assisted dying.

WB41	Shen Pan	Seats (Total: 30)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

PHIL309L **Philosophical Problems; Philosophy of Love and Sex**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A focused study of a contemporary philosophical problem or issue. Topics will vary, but the course will encourage students to to generate critical analyses or proposed resolutions of issues in the contemporary philosophical literature.

This course will explore the nature of love and sex. We will survey the philosophical literature for accounts of both, while answering questions related to personal identity (do we change or stop being ourselves when in love?), to autonomy (am I good lover if I sabotage my lover's plans for their own good?), and to justification (is love responsive to reasons? Are some reasons better than others?). Some moral issues raised by these questions will be considered as we proceed.

WB61	Aida Roige Mas	Seats (Total: 30)
	Meets July 29, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

PHIL318E **Studies in Epistemology/Metaphysics; Philosophy Through Popular Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view in epistemology or metaphysics.

In this course we will explore philosophy through popular film. We will watch thought-provoking movies as a springboard to explore big philosophical questions about, for instance, what we can know, the nature of consciousness and AI, whether we have free will, what makes a person who they are over time, and what ethical responsibilities we have towards others.

WB41	Heather Adair	Seats (Total: 30)
	Meets July 8, 2019 - July 26, 2019	
	Class time/details on ELMs	ONLINE

PHIL498 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

PHIL688 **Selected Problems in Philosophy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL788 **Research in Philosophy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department to make arrangements.

Contact department for information to register for this course.

PHIL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PHIL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department to make arrangements.

Contact department for information to register for this course.

PHSC Public Health Science Summer 2019

PHSC389 **Independent Research Study in Public Health Science**

(Perm req)

Credits: 1-6 Grading Method: Regular

This independent research-based experience will provide the opportunity for students to work with individual research mentors in the area of Public Health Science. Students must identify a mentor prior to obtaining departmental permission.

Contact department for information to register for this course.

PHSC399 **Public Health Science Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular

The Public Health Science internship will enable students to gain practical experience under conditions conducive to academic, research and professional development. The internship is a time-limited, supervised period of public health professional experience carried out in a related professional organization or research setting.

0101	Nancy Smith	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	
I101	Nancy Smith	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

PHSC401 **History of Public Health**

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and must have earned a minimum of 45 credits. Credit only granted for: PHSC401 or SPHL401. Formerly: SPHL401.

Emphasis is on the history of public health in the Western world from antiquity to the present. Also examines the influence of public health developments as they relate to the Western world as well as throughout diverse cultures and societies across the globe. Analysis focuses on the interaction among Western and non-Western cultures with respect to health issues, including science, policies, prevention and treatment.

WB51	Marian Jones	Seats (Total: 40)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

PHSC497 **Public Health Science Capstone**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: Must have completed the professional writing requirement with a C- or higher; and minimum grade of C- in MIEH400. Restriction: Must have earned a minimum of 100 credits; and must be in Public Health Science program; and must be in the final semester of undergraduate study. Credit only granted for: SPHL498F or PHSC497. Formerly: SPHL498F.

The capstone course is the culminating experience for Public Health Science students and must be taken only in the final semester of study. The Public Health Science capstone course is designed to challenge students to integrate the five core areas of public health in investigating, researching and addressing public health issues. Throughout the semester, students will be required to evaluate, analyze and synthesize scholarly works as they research and propose solutions to a variety of public health issues. By the conclusion of this research based course, students will understand how the various public health perspectives can combine in addressing and informing public health practices.

Contact department for information to register for this course.

PHYS Physics Summer 2019

PHYS121 **Fundamentals of Physics I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: MATH112 or MATH115. Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS122, this generally satisfies the minimum requirement of medical and dental schools.

Students must pay a $50.00 Laboratory Materials fee. Course located in PHY 1410.

0181	Shabnam Jabeen	Seats (Total: 28)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 5:30pm - 6:50pm	Location: TBA	
	TuTh 7:00pm - 9:00pm	PHY 3306	Lab
	MW 7:00pm - 8:00pm	PHY 0405	Discussion
0182	Shabnam Jabeen	Seats (Total: 28)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 5:30pm - 6:50pm	Location: TBA	
	MW 7:00pm - 9:00pm	PHY 3306	Lab
	TuTh 7:00pm - 8:00pm	PHY 0405	Discussion

PHYS122 **Fundamentals of Physics II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: PHYS121; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

A continuation of PHYS121, which together with it, generally satisfies the minimum requirement of medical and dental schools.

Students must pay a $50.00 Laboratory Materials fee.

0281	Hailu Gebremariam	Seats (Total: 24)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 5:30pm - 6:50pm	PHY 1410	
	TuTh 7:00pm - 9:00pm	PHY 3312	Lab
	MW 7:00pm - 8:00pm	PHY 1219	Discussion

0282	Hailu Gebremariam	Seats (Total: 24)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 5:30pm - 6:50pm	PHY 1410	
	MW 7:00pm - 9:00pm	PHY 3312	Lab
	TuTh 7:00pm - 8:00pm	PHY 0405	Discussion

PHYS131 **Fundamentals of Physics for Life Sciences I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131; and (MATH131 or MATH136); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 9:30am - 10:50am	PHY 0405	
	TuTh 12:00pm - 1:50pm	PHY 3310	Lab
	MW 11:00am - 11:50am	PHY 1219	Discussion

PHYS132 **Fundamentals of Physics for Life Sciences II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

The second part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic statistical physics, electricity and magnetism, and optics done in authentic biological contexts.

0201	David Buehrle	Seats (Total: 24)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 9:30am - 10:50am	PHY 1410	
	TuTh 12:00pm - 1:50pm	PHY 3312	Lab
	MW 11:00am - 11:50am	PHY 3312	Discussion

PHYS141 **Principles of Physics**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: PL	General Education: DSNL

Corequisite: MATH141 or MATH121; or MATH221. Credit only granted for: PHYS141, PHYS161, or PHYS171.

The first of a two-semester series in general physics. The first semester covers the fields of mechanics, thermodynamics, and special relativity. This survey course will use calculus and is recommended for chemistry and zoology majors. It also satisfies the requirements of medical and dental schools.

Course located in PHY 1410.

0181	Shabnam Jabeen	Seats (Total: 14)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 5:30pm - 6:50pm	Location: TBA	
	TuTh 7:00pm - 9:00pm	PHY 3219	Lab
	MW 7:00pm - 7:50pm	PHY 1219	Discussion

PHYS142 **Principles of Physics**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: PL	General Education: DSNL

Prerequisite: PHYS141; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS142, (PHYS260 and PHYS261), or PHYS272.

A continuation of PHYS141 covering waves, electricity and magnetism, optics and modern physics.

0281	Hailu Gebremariam	Seats (Total: 27)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 5:30pm - 6:50pm	PHY 1410	
	TuTh 7:00pm - 9:00pm	PHY 3213	Lab
	MW 7:00pm - 7:50pm	MTH B0429	Discussion

PHYS161 **General Physics: Mechanics and Particle Dynamics**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three-semester calculus-based general physics course. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation.

0101	Matt Severson	Seats (Total: 32)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 2:30pm - 3:50pm	PHY 1219	
	TuTh 1:30pm - 2:20pm	PHY 1219	Discussion

PHYS260 **General Physics: Vibration, Waves, Heat, Electricity and Magnetism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester.

0201	David Buehrle	Seats (Total: 36)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 11:00am - 12:20pm	CHM 0119	
	TuTh 10:00am - 10:50am	PHY 0405	Discussion

PHYS261 **General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (Laboratory)**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Corequisite: PHYS260.

Lab includes experiments on mechanics, vibrations, waves, heat, electricity and magnetism. PHYS260 and PHYS261 (lab) must be taken in the same semester.

Students must pay a $50.00 Laboratory Materials fee.

0201	David Buehrle	Seats (Total: 36)	
	Meets July 8, 2019 - August 16, 2019		
	TuTh 1:00pm - 4:00pm	PHY 3219	Lab

PHYS270 **General Physics: Electrodynamics, Light, Relativity and Modern Physics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS271)

Prerequisite: PHYS261, MATH241, and PHYS260. Corequisite: PHYS271.

Third semester of a three-semester calculus-based general physics course. Electrodynamics, Maxwell's equations and electromagnetic waves, geometrical optics, interference, diffraction, special theory of relativity, and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWThF 11:00am - 12:20pm	CHM 1228	
	MW 10:00am - 10:50am	CHM 1228	Discussion

PHYS271 **General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

Students must pay a $50.00 Laboratory Materials fee.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 28, 2019 - July 5, 2019		
	MW 1:00pm - 4:00pm	PHY 3213	Lab

PHYS273 **Introductory Physics: Waves**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: PHYS274. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series an integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

0201	Hailu Gebremariam	Seats (Total: 20)	
	Meets July 8, 2019 - August 16, 2019		
	MTuWThF 2:00pm - 3:20pm	PHY 1219	

PHYS299 **Special Problems in Physics**

(Perm req) Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Contact department for information to register for this course.

PHYS399 **Special Problems in Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

Contact department for information to register for this course.

PHYS499 **Special Problems in Physics**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS798 **Special Problems in Advanced Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department to make arrangements.

Contact department for information to register for this course.

PHYS798I **Special Problems in Advanced Physics; RF Superconductivity: Physics, Technology and Applications**

Credits: 3 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798J **Special Problems in Advanced Physics; Beam Dynamics Experiments on University of Maryland Electron Ring**

Credits: 3 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798K **Special Problems in Advanced Physics; Beam Physics with Intense Space Charge**

Credits: 2-3 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798M **Special Problems in Advanced Physics; Medical Applications of Accelerators**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798O **Special Problems in Advanced Physics; Laser Plasma Accelerators**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798Q **Special Problems in Advanced Physics; Vacuum Electron Devices**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798R **Special Problems in Advanced Physics; Beam-Based Diagnostics**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798T **Special Problems in Advanced Physics; Radiation Detection and Imaging for Medicine and Homeland Security**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798V **Special Problems in Advanced Physics; Laser Application to Accelerators**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798W **Special Problems in Advanced Physics; Microwave Sources**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798X **Special Problems in Advanced Physics; Control Room Accelerator Physics**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PHYS898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PHYS899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PLCY Public Policy Summer 2019

PLCY309 **Internship in Political Institutions: State and Local**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Offers students supervised internship placements in state and local political or public policy organizations.

I101	Jennifer Littlefield **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
I201	Jennifer Littlefield **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

PLCY359E **Contemporary Issues in Political Leadership and Participation; Ethiopia: Policy and Politics of Economic Development in Africa**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in political leadership and participation.

Contact department for information to register for this course.

PLCY386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: Permission of PLCY-School of Public Policy. Credit only granted for: PLCY386 or PUAF386. Formerly: PUAF386.

I101	Nina Harris **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
I201	Nina Harris **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

PLCY388Y **Special Topics in Public Policy; Critical Policy Issues on Weapons of Mass Destruction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Contact department for information to register for this course.

PLCY650 **Moral Dimensions of Public Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY650 or PUAF650. Formerly: PUAF650.

Explores the moral issues involved in public policy questions; the limits and usefulness of decision-making tools; problems of choosing, justifying and using criteria to judge a program's success and suitability; ethichal issues involving the welfare state and income distribution; and possible obligations beyond one's political community and generation.

Contact department for information to register for this course.

PLCY688G **Topics in Public Policy; Governance: Leadership, Managment & Accountability**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PLCY major or permission of instructor.

0101	Elizabeth Duke	Seats (Total: 20)	
	Meets May 28, 2019 - July 5, 2019		
	TuTh 5:30pm - 9:00pm	VMH 1203	

PLCY688I **Topics in Public Policy; Macroeconomics for Public Policy**

Credits: 2 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PLCY major or permission of instructor.

0201	Anthony Sanford	Seats (Total: 20)	
	Meets July 8, 2019 - August 16, 2019		
	MW 6:00pm - 9:15pm	VMH 1203	
	TuTh 6:00pm - 9:15pm	VMH 1203	Discussion
	The course will meet ten times on select Mondays and Wednesdays, to be determined. There will be a similar number of optional discussion sections on select Tuesdays and Thursdays, to be determined.		

PLCY698C **Selected Topics in Public Affairs; Intelligence and National Security**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY698P **Selected Topics in Public Affairs; Information Policy and Technology**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY698Y **Selected Topics in Public Affairs; Critical Policy Issues on Weapons of Mass Destruction**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699E **Selected Topics Public Policy; Social Policy Implications of Big Data and Artificial Intelligence**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699G **Selected Topics Public Policy; Leadership in Groups and Organizations**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

0201	Kenneth Apfel	Seats (Total: 10)
	Meets July 15, 2019 - August 16, 2019	
	TuTh 5:30pm - 9:15pm	VMH 1107
	Restricted to PLCY major or permission of instructor.	

PLCY699N **Selected Topics Public Policy; Understanding and Synthesizing Evidence-Based Research**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699R **Selected Topics Public Policy; Critical Thinking and Analytical Methodology**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY711 **Public Management and Leadership**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY711 or PUAF711. Formerly: PUAF711.

Reviews the managerial, political, and ethical problems faced by public sector managers and leaders, including setting an organization's goals, obtaining and protecting a program mandate, designing a service delivery system and implementing a new program.

Contact department for information to register for this course.

PLCY724 **Problems of Global Security**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY724 or PUAF724. Formerly: PUAF698W and PUAF724.

Explores the international security implications of globalization, presenting evidence indicating that altered circumstances will eventually induce a major redesign of prevailing security arrangements. Includes three segments: 1) a review of the principal problems that have been the focus of established security policy and would be the context for any major adjustment of policy; 2) an assessment of relationships with the major countries where traditional problems are most acutely present; and 3) a review of the organizing principles that can be expected to emerge in the new situation.

Contact department for information to register for this course.

PLCY752 **Managing Differences:Resolving Conflict and Negotiating Agreements**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY752 or PUAF752. Formerly: PUAF752.

Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.

0101	Steve Sin	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 6:00pm - 9:30pm	VMH 1107
	Contact instructor or department for details.	

PLCY790 **Project Course**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY790 or PUAF790. Formerly: PUAF790.

Students work at a sponsoring government agency or private firm researching problem of interest to sponsor and relevant to concentration. Emphasis on problem definition, organizing information, and both oral and written presentation of results.

Contact department for information to register for this course.

PLCY798A **Readings in Public Policy**

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY798F **Readings in Public Policy; Moral Foundations of Intelligence**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0110	Carol Graham **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0113	Anand Patwardhan **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 3)
0128	Alok Bhargava **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0171	Angela Bies **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0213	Anand Patwardhan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 3)
0271	Angela Bies **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

PLCY899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

0113	Anand Patwardhan **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 3)
0115	Peter Reuter **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0161	Nathan Hultman **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)

0213	Anand Patwardhan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 3)
0215	Peter Reuter **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0261	Nathan Hultman **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

PLSC Plant Sciences Summer 2019

PLSC100 **Introduction to Horticulture**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

An overview to the art and science of horticulture. Relationships between plant science and plant production, the use of horticultural plants and plant stress as influenced by cultural practices.

HY11	Burkhard Schulz **Meets May 28, 2019 - July 5, 2019** M 9:30am - 10:50am Class time/details on ELMs MW 12:30pm - 3:20pm	Seats (Total: 24) PLS 1146 ONLINE PLS 1153	 Lab

PLSC399 **Special Problems in Plant Science**

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Research projects in Plant Science including field, greenhouse, laboratory, studio and/or library studies. Research is conducted under the direction of a faculty member.

0104	Mark Carroll **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0110	Gary Coleman **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

0118	Kathryne Everts **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0119	Nicole Fiorellino **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0128	John Lea-Cox **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0132	Lea Johnson **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0133	Mengjun Hu **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0136	Maile Neel **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0142	Joseph Roberts **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0144	William Phillips **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0146	Joseph Sullivan **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0147	Vijay Tiwari **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

0152	Christopher Walsh **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0155	Melissa Welsh **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0156	Priscila Chaverri **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0160	Cassandra Swett **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0162	Jianhua Zhu **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0164	James Culver **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0166	Shunyuan Xiao **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0170	Shirley Micallef **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0171	Yiping Qi **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0172	Kate Tully **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

0174	Angus Murphy **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0176	Burkhard Schulz **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0204	Mark Carroll **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0208	Steven Cohan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0210	Gary Coleman **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0218	Kathryne Everts **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0219	Nicole Fiorellino **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0228	John Lea-Cox **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0232	Lea Johnson **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0233	Mengjun Hu **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0236	Maile Neel **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0242	Joseph Roberts **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0244	William Phillips **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0246	Joseph Sullivan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0247	Vijay Tiwari **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0252	Christopher Walsh **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0255	Melissa Welsh **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0256	Priscila Chaverri **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0260	Cassandra Swett **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0262	Jianhua Zhu **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

0264	James Culver **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0266	Shunyuan Xiao **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0270	Shirley Micallef **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0271	Yiping Qi **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0272	Kate Tully **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0274	Angus Murphy **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
0276	Burkhard Schulz **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)

PLSC689J **Special Topics; Tropical Fungi and Plant Health**

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

This field course in Costa Rica will teach students about fungi in their natural habitats and in agricultural settings. Students will learn how fungi can affect crop and natural plants. This will be accomplished by hands-on learning in the field and laboratory in the forests and agricultural fields where the plants grow. Students will visit natural tropical forests, and collect and identify from microscopic to macroscopic mushrooms. The students will also visit farms where different crops are produced, from very local subsistence agriculture (for example, rice and beans and other vegetables) to large-scale agricultural for export to theUnited States (for example, banans, pineapples, ornamentals, and others). Students will learn how to identify plant diseases that affect those crops. Students from the University of Costa Rica (UCR) will also participate. Students from bothuniversities will develop short research projects during the course.

Contact department for information to register for this course.

PLSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PLSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PLSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PSYC Psychology Summer 2019

PSYC100 **Introduction to Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSNS

A basic introductory course, intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

WB11	Meg O'Neill	Seats (Total: 75)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

WB21	Meg O'Neill	Seats (Total: 77)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

PSYC200 **Statistical Methods in Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: PSYC100. And 1 course with a minimum grade of C- from (MATH107, MATH111, MATH120, MATH130, MATH136, MATH140, STAT100); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

A basic introduction to quantitative methods used in psychological research.

WB11	Tracy Tomlinson	Seats (Total: 75)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

PSYC221 **Social Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior.

Click here for sample course syllabus.

WB11	Dylan Selterman	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
YS41	Dylan Selterman	Seats (Total: 40)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 9:30am - 12:10pm	BPS 1238
	This section is part of Terp Young Scholars. Enrollment by permission only. Email summer@umd.edu for further information.	

PSYC289E **Psychology of Evil**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSSP, SCIS

Why is there evil in the world? Are some born evil, or do social, environmental and cultural forces create evil? What makes otherwise good people do evil things? The scientific study of evil epitomizes the fundamental challenge that psychology faces in dissecting the role of biology (nature) and the social context (nurture).

Click here for more course information and a sample syllabus.

0101	Scott Roberts	Seats (Total: 48)
	Meets May 28, 2019 - July 5, 2019	
	MWF 10:00am - 12:30pm	ESJ 1215

PSYC300 **Research Methods in Psychology Laboratory**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	General Education: DSSP

Prerequisite: PSYC200. Restriction: Must be in Psychology program. Credit only granted for: PSYC300 or PSYC309R. Formerly: PSYC309R.

A general introduction and overview to the fundamental theoretical, conceptual, and practical issues in psychological research in both the laboratory and the field.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

HY21	Stephanie Ruppen	Seats (Total: 50)
	Meets July 8, 2019 - August 16, 2019	
	TuTh 9:00am - 12:20pm F 9:00am - 12:20pm	ESJ 1215 ONLINE

PSYC301 **Biological Basis of Behavior**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSNS

Prerequisite: PSYC100. And BSCI170 and BSCI171; or BSCI105.

Recent advances in neuroscience are radically changing our understanding of how the brain works. The course first introduces the structure of the nervous system and the electrical and chemical signals at the core of brain function. Students then explore how the nervous system gathers and makes sense of information from the world around us. The last portion of the course focuses on plasticity, the concept that our brains are constantly changing, and its implications for nervous system development, memory, sexual behavior, sleep, and other complex behaviors.

WB21	David Yager	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

PSYC332 **Psychology of Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.

Contact department for information to register for this course.

PSYC334 **Psychology of Interpersonal Relationships**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g., communication, bargaining, conflict resolution), and issues associated with troubled dyadic relations with equal partners (e.g., jealousy, spouse abuse, divorce).

WB11	Rachel Venaglia	Seats (Total: 45)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

PSYC338G **Special Topics in Study Abroad III; The Social Brain: Neuropsychology of Social Behaviors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338P **Special Topics in Study Abroad III; Positive Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC353 **Adult Psychopathology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program.

The nature, diagnosis, etiology, and treatment of mental disorders.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Jack Blanchard	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

PSYC354 **Multicultural Psychology in the U.S.**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100.

What are the psychological implications of racism, sexism, homophobia and other structures of inequality in the United States? How do socio-cultural privilege and oppression influence individual and group thoughts, feelings, and behaviors? This course will take a current events focus to understanding multicultural and social justice issues in psychology with an emphasis on self-reflection, mental health, cross-cultural communication, and strategies for social change.

YS41	Meg O'Neill	Seats (Total: 10)
	Meets July 8, 2019 - July 26, 2019	
	MTuWThF 9:00am - 12:00pm	PLS 1119
	This section is part of Terp Young Scholars. Enrollment by Permission Only. Email summer@umd.edu for further information.	

PSYC404 **Introduction to Behavioral Pharmacology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC301. Restriction: Must be in Psychology program.

Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.

WB21	Frank Hall	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

PSYC432 **Counseling Psychology: Theories, Research, and Practice**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200.

Analysis of research and intervention strategies developed and used by counseling psychologists. Historical and current trends in content and methodology.

WB11	Nazish Salahuddin	Seats (Total: 50)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

PSYC436 **Introduction to Clinical Psychology: From Science to Practice**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300.

Critical analysis of clinical psychology, with particular emphasis on current developments and trends.

Contact department for information to register for this course.

PSYC438F **Special Topics in Study Abroad IV; Psychotherapy Then and Now**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

PSYC479 **Special Research Problems in Psychology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

PSYC489L **Advanced Special Topics in Psychology; Death, Dying, and Grieving: What Future Health Care Professionals Need to Know**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

WB21	Karen O'Brien	Seats (Total: 40)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

PSYC629A **Clinical Laboratory; Foundations of Clinical Assessment and Intervention**

(Perm req)

Credits: 1-3

Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Lea Dougherty	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

PSYC629B **Clinical Laboratory; Assessment Practicum**

(Perm req)

Credits: 1-3

Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Andrea Chisolm	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

PSYC629C **Clinical Laboratory; Adult Therapy Practicum**

Credits: 1-3

Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Mary Byrne	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

PSYC629D **Clinical Laboratory; Child and Adolescent Therapy Practicum**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Christina Danko	Seats (Total: 20)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

PSYC632 **Behavioral and Cognitive Behavioral Intervention for Children and Adolescents**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Formerly: PSYC789A.

Introduces students to the process of therapy with particular focus on behavioral and cognitive behavioral interventions in children and adolescents. Syllabus focuses on theory, research, client diversity, ethics and practical aspects of conducting therapy.

Restricted to students in Clinical Psychological Science Program.

Click here for more course information.

PCC1	Christina Danko	Seats (Total: 40)
	Meets May 28, 2019 - August 16, 2019	
	Th 6:00pm - 9:15pm	BPS 1140

PSYC638 **Externship in Professional Psychology**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Approved appointment as an extern in a mental health setting.

0101	Jonathan Mohr	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

0102	Lea Dougherty **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 15)
I101	Jonathan Mohr **Meets May 28, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 10)
I201	Jonathan Mohr **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

PSYC639 **Internship in Professional Psychology**

Credits: 1 Grading Method: Sat-Fail

This seminar combines involvement with a program approved appointment a an intern in a mental setting with a supervisory review of the training experience.

Contact department for information to register for this course.

PSYC650 **Culture and Diversity in Mental Health**

Credits: 3 Grading Method: Regular

Restriction: Must be enrolled in the Clinical Psychological Science MPS program.

Review literature regarding the role of culture and diversity in mental health and how culture and diversity are integrated into research and are related to mental health and mental health service utilization. Examine principles and concepts of multicultural and cross-cultural psychology to acquire an increased understanding of diverse underrepresented groups and topics to consider when involved with research and/or clinical work with individuals having diverse backgrounds (e.g., cultures, ethnicities, genders, sexual orientations, and socioeconomic status).

Restricted to students in Clinical Psychological Science Program.

Click here for more course information.

PCC1	Andrea Chisolm **Meets May 28, 2019 - August 16, 2019** Tu 6:00pm - 9:15pm	Seats (Total: 40) BPS 1140

PSYC656 **Business Fundamentals and Legal Issues facing Organizations**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

This course provides an overview of the fundamentals of business, including both issues of finance and legal issues faced by organizations. Topics will include finance, accounting, and marketing. Students will learn core business concepts, about how each major business function enables organizations to run, and how to talk to and understand the leaders of organization. Additionally, this course will provide an overview of common legal challenges organizations face. In addition to introducing students to employment law, this course will review professional ethics standards for IO psychology. This course will use case study methodology to hone students' understanding of the ethical and legal issues faced in day-to-day organizational life.

Restricted to students in Industrial/Organizational Psychology.

Click here for more course information.

PYP1	Kenneth Yusko	Seats (Total: 40)	
	Meets May 28, 2019 - August 16, 2019		
	M 5:00pm - 8:30pm Class time/details on ELMs	BPS 1140B ONLINE	Discussion

PSYC657 **Managing Strategic Organizational Change**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this course, students will learn to think about organizations as systems and will explore catalysts of organizational change. Issues of strategy, market pressure, competition, workforce planning, and stakeholder buy-in will be discussed. Finally, students will learn about methods for planning, leveraging, and managing organizational change. Case study methodology will be used to deepen learning on the challenges faced during organizational change and how to guide organizations through change, planned or not.

Restricted to students in Industrial/Organizational Psychology.

Click here for more course information.

PYP1	Colin Cooper	Seats (Total: 40)	
	Meets May 28, 2019 - August 16, 2019		
	W 5:00pm - 8:30pm Class time/details on ELMs	BPS 1140B ONLINE	Discussion

PSYC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PSYC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PSYC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

RDEV Real Estate Development Summer 2019

RDEV689N **Current Topics in Real Estate Development; Construction Methods and Materials: Introduction**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Prerequisite: permission of department.

0101	Robert McClennan	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	MTh 6:30pm - 10:15pm	ARC 1103

RDEV689P **Current Topics in Real Estate Development; Introduction to International Development**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

0201	Mircea Enache	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	MTh 6:30pm - 10:00pm	ARC 1103

RDEV689Y **Current Topics in Real Estate Development; Guided Real Estate Development Project**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Permission of the department required to register.

0201	Maria Day-Marshall	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

RELS Religious Studies Summer 2019

RELS269G **Special Topics in Study Abroad II; From Asoka to Gandhi: Buddhism and Hinduism in Contemporary Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS289J **New Explorations in Religious Studies; Jerusalem in Antiquity: The History of Sacred Space in a Holy City**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP, SCIS

Investigation of critical and innovative responses in Religious Studies Although the topic will vary, the course will encourage intellectual exploration by students of fundamental problems and critical methods.

Also offered as JWST289J. Credit only granted for JWST289J or Rels289J. This course surveys the religious, political, archaeological. and cultural history of Jerusalem over three millennia as a symbolic focus of three faiths: Judaism, Christianity, and Islam. Students will gain an understanding of the present-day conflict between Israel and Palestine, including relevant diplomatic texts, and will analyze the points of contention and possible solutions in the conflict.

WB31	Robert Cargill	Seats (Total: 50)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

RELS369R **Special Topics in Study Abroad III; Christianity and the Roman Empire (100-425CE)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RUSS Russian Summer 2019

RUSS289I **The Power of the Word: Freedom of Speech in the U.S. and Russia**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, SCIS

0201	Cynthia Martin **Meets July 8, 2019 - August 16, 2019** MW 6:00pm - 9:15pm	Seats (Total: 30) JMZ 2206

RUSS386 **Experiential Learning**

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Languages, Literatures, and Cultures department.

0101	Cynthia Martin **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0201	Cynthia Martin **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

RUSS398G **Selected Topics in Russian Language and Literature; Russian Grammar**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS 102 or higher. Course covers the basic grammatical categories of conjugations and declensions, including analysis of aspect, case usage. Students level will be assessed at the beginning of the course so that assignments may be individualized as appropriate.

WB11	Cynthia Martin **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 15) ONLINE

RUSS409A **Selected Topics in Russian Language Study; Advanced Russian Grammar for Reading**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Presentation of a topic in Russian language study.

Prerequisite: RUSS 102 or higher. Course is intended to help students improve their reading skills by focusing on syntax and fundamental structures (such as participles) encountered in common written texts. The main focus will be on reading the contemporary Russian media sources, but students will be encouraged to read other genres related to their individual interests. Students level will be assessed at the beginning of the course so that assignments may be individualized as appropriate.

WB21	Cynthia Martin	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

RUSS499 **Independent Study in Russian**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

SLAA Second Language Acquisition and Application Summer 2019

SLAA779 **Directed Research in Second Language Acquisition and Application**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Directed independent research in Second Language Acquisition or Application. In this capstone project, students engage in independent research under faculty direction.

Contact department for information to register for this course.

SLAA899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0213	Kira Gor	Seats (Total: 1)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	
I101	Robert De Keyser	Seats (Total: 1)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details.	

I245	Steven Ross	Seats (Total: 1)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details.	

SLLC School of Languages, Literatures and Cultures Summer 2019

SLLC169B **Special Topics in Study Abroad I; Elementary Basque I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169C **Special Topics in Study Abroad I; Elementary Basque II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169D **Special Topics in Study Abroad I; Great Czech Writers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169L **Special Topics in Study Abroad I; Basque Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269C **Special Topics in Study Abroad II; Basque Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC299A **Special Topics in World Cultures; Exploring Confucius' China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC299R **Special Topics in World Cultures; Elementary Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC299Z **Special Topics in World Cultures; Spanish Civilization and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC342 **Film Comedy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-School of Languages, Literatures, and Cultures department. Also offered as: FILM342. Credit only granted for: SLLC342, FILM342, or SLLC368B. Formerly: SLLC368B.

Comedy as a specific cinematic genre.

WB51	Luka Arsenjuk	Seats (Total: 30)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

SLLC369A **Special Topics in Study Abroad III; Alternative Culture, Literature, Music and Lifestyles**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369C **Special Topics in Study Abroad III; Czech Film**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC386 **Experiential Learning**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor and the student's internship sponsor. Restriction: Junior standing or higher.

0101	Regina Igel **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 1)
0201	Regina Igel **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)

SOCY Sociology Summer 2019

SOCY100 **Introduction to Sociology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

WB31	Eric Stone **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE
WB51	Shilpa Reddy **Meets June 17, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE
WB61	Amanda Dewey **Meets July 29, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 30) ONLINE

SOCY105 **Introduction to Contemporary Social Problems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

An examination of contemporary social problems through sociological perspectives; ways in which social problems are part of the organization of society; a detailed study of selected social problems including social conflict and social inequality.

WB31	Zhiyong Lin **Meets May 28, 2019 - June 14, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE		
WB61	Simone Durham **Meets July 29, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 35) ONLINE		

SOCY201 **Introductory Statistics for Sociology**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: SOCY100; and (MATH107 or MATH111). Or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Elementary descriptive and inferential statistics. Construction and percentaging of bivariate contingency tables; frequency distributions and graphic presentations; measures of central tendency and dispersion; parametric and nonparametric measures of association and correlation; regression; probability; hypothesis testing; the normal, binomial and chi-square distributions; point and interval estimates.

HY11	Alan Neustadtl **Meets May 28, 2019 - July 5, 2019** MTuW 9:30am - 10:50am MW 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 20) ASY 3207 LEF 0229 ONLINE	 Lab Discussion

SOCY202 **Introduction to Research Methods in Sociology**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: SOCY201; or permission of BSOS-Sociology department.

The underlying logic, major strategies, specific techniques and skills of sociological research. Research design, measurement, data collection, sampling, field research experiments, surveys, index and scale construction, data analysis, interpretation and report writing.

0101	Jae-In Lee	Seats (Total: 20)	
	Meets May 28, 2019 - July 5, 2019		
	MTuWTh 10:00am - 12:00pm	TWS 1320	
	TuTh 2:00pm - 4:00pm	LEF 0225	Lab

SOCY203 **Sociological Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY100.

Development of the science of sociology; historical backgrounds; recent theories of society. Required of all sociology majors.

Click here for more course information.

HY11	Brian Connor	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	MW 2:00pm - 4:00pm	ASY 3207
	Class time/details on ELMs	ONLINE

SOCY386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Sociology department; and junior standing or higher.

Contact department for information to register for this course.

SOCY399 **Independent Study in Sociology**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.

Contact department for information to register for this course.

SOCY432 **Social Movements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Movements that seek change in the social and political structure of society. Origins, tactics, organization, recruitment, and success. Case studies come from such movements as labor, civil rights, student, feminist, environmental, neighborhood, and gay rights.

WB21	Danielle Koonce	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

SOCY699 **Special Social Problems**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

SOCY799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

SOCY898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SOCY899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

SPAN Spanish Summer 2019

SPAN103 **Intensive Elementary Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish. Credit only granted for: SPAN102 or SPAN103.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Ofelia Montelongo Valencia **Meets May 28, 2019 - July 5, 2019** MTuWTh 9:30am - 11:45am	Seats (Total: 25) JMZ 1122
0102	Daniela Hernandez **Meets May 28, 2019 - July 5, 2019** TuWTh 6:00pm - 9:00pm	Seats (Total: 25) TWS 1106

SPAN169W **Special Topics in Study Abroad I; Introduction to Spanish Lanuage I**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169X **Special Topics in Study Abroad I; Elementary Spanish I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169Y **Special Topics in Study Abroad I; Elementary Spanish II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169Z **Special Topics in Study Abroad I; Introduction to Spanish Lanuage II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN203 **Intensive Intermediate Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: SPAN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Nidia Reyes **Meets May 28, 2019 - July 5, 2019** MTuWTh 9:30am - 11:45am	Seats (Total: 25) TWS 1106
0102	Katherin Solano **Meets May 28, 2019 - July 5, 2019** TuWTh 6:00pm - 9:00pm	Seats (Total: 25) JMZ 0120
0201	Jackson Monzon **Meets July 8, 2019 - August 16, 2019** MTuWTh 9:30am - 11:45am	Seats (Total: 25) TWS 1321
0202	Evelyn Canabal-Torres **Meets July 8, 2019 - August 16, 2019** TuWTh 6:00pm - 9:00pm	Seats (Total: 25) JMZ 1122
0203	Juan Diaz **Meets July 8, 2019 - August 16, 2019** TuWTh 6:00pm - 9:00pm	Seats (Total: 25) JMZ 1117

SPAN204 **Spanish Grammar Review**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: SPAN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Spanish.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

Contact department for information to register for this course.

SPAN207 **Reading and Writing in Spanish**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: Minimum grade of B+ in SPAN203; or must have completed or be concurrently enrolled in SPAN204; or must have appropriate Foreign Language Placement Test (FLPT) score.

Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.

WB11	Chila Hidalgo **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 10) ONLINE
WB21	Sofia Maurette **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 10) ONLINE

SPAN269I **Special Topics in Study Abroad II; Intensive Intermediate Spanish**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269P **Special Topics in Study Abroad II; Spanish Oral Techniques**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN301 **Advanced Grammar and Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPAN207.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical, and stylistic devices will be highlighted.

WB11	Carla Onate **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 10) ONLINE
WB21	Rosario de Fatima Montero Navarro **Meets July 8, 2019 - August 16, 2019** Class time/details on ELMs	Seats (Total: 10) ONLINE

SPAN302 **Advanced Grammar and Composition II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301.

Practice in and writing of different types of compositions and essays, including narrations, descriptions, and persuasive writing. Review of problematic syntactical structures.

Contact department for information to register for this course.

SPAN303 **Approaches to Cultural Materials in the Hispanic World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN301. Recommended: May elect to take SPAN311 and/or SPAN316 in same semester as SPAN303.

Development of proficiency in critical thought through the reading, viewing, and analytical discussion of major genres and styles of cultural materials selected from Spanish-speaking world. Taught in Spanish.

0101	Mariluz Bort Caballero	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	MW 9:30am - 1:00pm	JMZ 2207

SPAN311 **Advanced Communication I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303. Restriction: Must not be a native/fluent speaker of Spanish.

Further development of listening, speaking, and writing skills in Spanish. Opportunity to develop oral and written fluency, improve pronunciation and increase vocabulary. Individual and/or group oral presentations. Taught in Spanish.

Contact department for information to register for this course.

SPAN312 **Advanced Conversation II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN311. Restriction: Must not be a native/fluent speaker of Spanish.

Continued mastery of listening and speaking skills in Spanish. Opportunity to develop oral fluency, improve pronunciation, and increase vocabulary. Emphasis on colloquial and technical language as well as development of linguistic accuracy. Individual and/or group oral presentation.

Contact department for information to register for this course.

SPAN315 **Commercial Spanish I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of Spanish commercial topics. May include exposure to Spanish commercial topics. May include exposure to Spanish business environments.

Contact department for information to register for this course.

SPAN333 **Spanish Culture, Civilization and Literature III: Modern Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Spain from the late 17th century through the present day, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN362 **Latin American Literatures and Cultures II: From Independence to Nation Formation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the 18th Century to approximately 1900, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN369C **Special Topics in Study Abroad III; Spanish Culture and History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369O **Special Topics in Study Abroad III; Spanish Conversation and Oral Skills**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369P **Special Topics in Study Abroad III; Spanish Oral Techniques**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN370 **Spanish for Business I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN303; and (SPAN311 or SPAN316). Credit only granted for: SPAN315 or SPAN370. Formerly: SPAN315.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of Spanish commercial topics. May include exposure to Spanish commercial topics. May include exposure to Spanish business environments. Taught in Spanish.

WB11	Chris Lewis	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

SPAN401 **Advanced Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN402 **Advanced Composition II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN408J **Special Topics in Iberian and Latin American Studies; Contemporary Mexican Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408X **Special Topics in Iberian and Latin American Studies; Spain: Salamanca and Barcelona**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408Y **Special Topics in Iberian and Latin American Studies; Contemporary Spanish Short Story**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409B **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409L **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN464 **Contemporary Spanish Poetry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Spanish poetry from the generation of 1927 to the present.

Contact department for information to register for this course.

SPAN474 **Central American Literatures, Cultures, and Histories**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

An overview of Central American history and cultural production, focusing primarily but not exclusively on literary texts.

Contact department for information to register for this course.

SPAN699 **Independent Study in Spanish**

Credits: 1-3 Grading Method: Regular, Audit

This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.

Contact department for information to register for this course.

SPAN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

SPAN899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0201	Ryan Long **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 1)

SPHL Public Health Summer 2019

SPHL100 Foundations of Public Health

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: SPHL100, PHSC300 or SPHL600.

An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that take into consideration different points of view, outside research, and impacts on individuals and communities.

WB11	Sylvette La Touche-Howard **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB12	Sylvette La Touche-Howard **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB13	Sylvette La Touche-Howard **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB14	Sylvette La Touche-Howard **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB15	Sylvette La Touche-Howard **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs	Seats (Total: 40) ONLINE

SPHL602 Foundations of Epidemiology and Biostatistics

Credits: 4

Grading Method: Regular, Audit

Recommended: Recommend SPHL603 as a co-requisite course. Restriction: Must be a graduate student within the School of Public Health. Credit only granted for: SPHL602 or EPIB610 and EPIB650.

An introduction to conceptual and practical tools from epidemiology and biostatistics that are necessary for the study of public health problems. Students learn epidemiologic concepts and methods, and basic statistical concepts and procedures used in public health research through applications, hands-on experience, and interpretations of statistical findings.

WB11	Raul Cruz-Cano, Rodman Turpin	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

SPHL603 **Public Health Data Laboratory**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Corequisite: SPHL602. Restriction: Must be a graduate student within the School of Public Health.

An introduction to the statistical software necessary to implement the epidemiology and biostatistics concepts covered in the course EPIB 602, Foundations of Epidemiology and Biostatistics through hands-on exercises.

WB11	Raul Cruz-Cano	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

SPHL620 **Leadership, Teams, and Coalitions: Policy to Advocacy**

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed SPHL610. Restriction: Must be a graduate student in the School of Public Health.

Students learn team building, leadership, and advocacy skills through the development and presentation of a policy brief on an urgent public health issue. The class will use a combination of brief lectures, discussions, and planned activities on how to develop a policy briefing. Students will have an inter-professional experience during which they will discuss possible approaches to developing policies on their public health issues while practicing team building skills. Class will culminate with presentation of policy briefs through a persuasive advocacy speech.

Students learn team building, leadership, and advocacy skills through the development and presentation of a policy brief on an urgent public health issue. The class will use a combination of brief lectures, discussions, and planned activities on how to develop a policy briefing. Students will have an inter-professional experience during which they will discuss possible approaches to developing policies on their public health issues while practicing team building skills. Class will culminate with presentation of policy briefs through a persuasive advocacy speech.

PLH1	Diane Dixon	Seats (Total: 0)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Must be in Public Health Policy & Practice Program. For permission to enroll, contact oes@umd.edu.	

STAT Statistics and Probability Summer 2019

STAT100 **Elementary Statistics and Probability**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: STAT100, MATH107 or MATH111.

Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.

Class has face to face meetings on Tuesday, May 28; Tuesday, June 11; Friday, June 28; and Friday, July 19; from 9:30-11:30am.

0101	Matthew Griffin	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 9:30am - 10:50am	MTH 0402
0201	Shiping Liu	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 9:30am - 10:50am	MTH B0425

HY11	Susan Mazzullo **Meets May 28, 2019 - July 5, 2019** Class time/details on ELMs Contact instructor or department for details. *Class will meet in person on Tuesday May 28th, Tuesday June 11th, Friday June 28th, and Friday July 5th.*	Seats (Total: 40) ONLINE

STAT400 **Applied Probability and Statistics I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Credit only granted for: BMGT231, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.

0101	Yiming Lyu **Meets May 28, 2019 - July 5, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 20) MTH 0303
0103	Timothy Pilachowski **Meets May 28, 2019 - July 5, 2019** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) MTH B0421
0201	Yuanhang Wang **Meets July 8, 2019 - August 16, 2019** MTuWThF 9:30am - 10:50am	Seats (Total: 25) MTH B0421

STAT401 **Applied Probability and Statistics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410). Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Point estimation - unbiased and consistent estimators. Interval estimation. Minimum variance and maximum likelihood estimators. Testing of hypotheses. Regression, correlation and analysis of variance. Sampling distributions. Elements of non-parametric methods.

0101	Paul Smith	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 9:30am - 10:50am	MTH 0411

STAT430 **Introduction to Statistical Computing with SAS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410).

Descriptive and inferential statistics. SAS software: numerical and graphical data summaries; merging, sorting and splitting data sets. Least squares, regression, graphics and informal diagnostics, interpreting results. Categorical data, lifetime data, time series. Applications to engineering, life science, business and social science.

0101	Corry Bedwell	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	MTuWThF 11:00am - 12:20pm	MTH 1311
0201	Nicholas Paskal	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	MTuWThF 9:30am - 10:50am	EGR 3114

STAT498A **Selected Topics in Statistics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the MATH/STAT major committee. Students register for reading in statistics under this number.

Contact department for information to register for this course.

STAT689 **Research Interactions in Statistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

0101	Instructor: TBA **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0102	Paul Smith **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)
0137	Yuan Liao **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 10)

STAT698A **Selected Topics in Probability**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

STAT798A **Selected Topics in Statistics**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

STAT799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

STAT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

SUMM Summer Summer 2019

SUMM015 **Field Methods in Archaeology**

Credits: 0 Grading Method:

Also offered as ANTH496 and ANTH696.

Click here for more course information.

Contact department for information to register for this course.

SUMM071 **Aeorspace Engineering Profession**

(Perm req)

Credits: 0 Grading Method:

Restricted to new transfer students admitted to the Clark School of Engineering. Prerequisite: permission of department.

0101	Aileen Hentz	Seats (Total: 8)
	Meets May 28, 2019 - July 5, 2019	
	F 9:00am - 12:00pm	EGR 2116
	Contact instructor or department for details.	

SURV Survey Methodology Summer 2019

SURV665 **Introduction to Real World Data Management**

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Data is omnipresent in the contemporary world coming in different shapes and sized: from survey data to found data. In order to make use of such data through analysis it is necessary first to import and clean it. This is often one of the most time consuming and difficult parts of data analysis. In this course you will learn both the conceptual steps needed in preparing data for analysis as well as the practical skills to do this. The course will cover all the essential skills needed to prepare data be it survey data, administrative data or found data.

SVW1	Instructor: TBA	Seats (Total: 15)
	Meets June 3, 2019 - July 22, 2019	
	M 3:00pm - 4:00pm	ONLINE
	Contact instructor or department for details.	
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV673 **Introduction to Python and SQL**

Credits: 1 Grading Method: Regular, Audit

Recommended: Background knowledge in programming in Python and SQL structures.

Basics of Python and SQL for data analysis.Students will explore real publicly-available datasets, using the data analysis toolsin Python to create summaries and generate visualizations. Students will learn thebasics of database management and organization, as well as learn how to code inSQL and work with PostgreSQL databases. By the end of the class, students shouldunderstand how to read in data from CSV files or from the internet and becomfortable using either SQL or Python to aggregate, summarize, describe, andvisualize these datasets.

SVW1	Brian Kim	Seats (Total: 15)
	Meets June 4, 2019 - June 25, 2019	
	Tu 12:00pm - 1:00pm Contact instructor or department for details.	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV699 **Special Topics in Survey Methodology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Frauke Kreuter	Seats (Total: 10)
	Meets May 28, 2019 - August 16, 2019	
	Contact instructor or department for details.	

SURV699E **Special Topics in Survey Methodology; Survey Design and Implementation in International Contexts**

Credits: 1

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

SVW1	Instructor: TBA	Seats (Total: 15)
	Meets July 25, 2019 - August 15, 2019	
	Th 12:00pm - 1:00pm Contact instructor or department for details.	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV699M **Special Topics in Survey Methodology; Review of Statistical Concepts**

Credits: 3 | Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

SVW1	Brian Kim	Seats (Total: 15)
	Meets June 5, 2019 - August 21, 2019	
	W 12:00pm - 1:00pm Contact instructor or department for details.	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV899 **Doctoral Dissertation Research**

Credits: 1-8 | Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

THET Theatre Summer 2019

THET110 **Introduction to the Theatre**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

In the age of pop music and blockbuster films, of memes and viral videos, we often forget that theatre was one of the original forms of popular entertainment. We will focus on theatre practitioners including actors, directors, designers and backstage personnel to understand how theatre is produced. We will also consider popular entertainment in Europe and America, with a particular focus on musical theatre and Broadway to explore how theatre communicates, resonates, and remains relevant to all audiences.

0201	Allison Hedges	Seats (Total: 13)
	Meets July 8, 2019 - August 16, 2019	
	MTuW 10:00am - 12:15pm	ASY 3219

THET223 **Text and Context in Western Theatre**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Introduction to the analysis and critique of the play script. Students will have the opportunity to read, analyze, and interpret western dramatic literature from a range of periods and styles. Texts are analyzed from a variety of theatrical analytical perspectives, with an eye towards choices theatre artists must make in the creation of a theatrical production.

0201	Kelley Holley	Seats (Total: 12)
	Meets July 8, 2019 - August 16, 2019	
	MTuW 10:00am - 12:15pm	PAC 1809

THET269B **Special Topics in Study Abroad II; The Meaning of Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET269M **Special Topics in Study Abroad II; Meaning of Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET328F **Special Topics in Intermediate Theatre and Performance; Study of Filmed Plays**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

WB30	Jennifer Newsham	Seats (Total: 12)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

THET390 **History of Theatre I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Prerequisite: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

The history of Western theatre from its origins in classical antiquity through the mid-seventeenth century with emphasis on plays and playwrights, architecture and decor, acting and costuming, and significant personalities. Includes explorations of interrelationships between Western theatre and the theatre of other cultures.

0201	Kioumars Mazandarani Haeri	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	MTuW 10:00am - 12:15pm	ATL 2416

THET391 **Theatre History II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

The history of Western theatre from the mid seventeenth century to the early twentieth century, with emphasis on plays and playwrights, architecture and decor, acting and costuming, and significant personalities. Includes explorations of interrelationships between Western theatre and the theatre of other cultures.

0201	Kioumars Mazandarani Haeri	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	MTuW 1:00pm - 3:15pm	ATL 2416

THET428E **Special Topics in Advanced Theatre and Performance; Literature, Art and Architecture in London**

Credits: 3 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Contact department for information to register for this course.

THET499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Contact department for information to register for this course.

THET669T **Independent Study; Teaching Technical Theatre: Stage Lighting and Sound**

Credits: 3 Grading Method: Regular, Audit

Participants will spend the course creating and evaluating hands-on and project-based methodologies for teaching stage lighting design and stage sound design. Students will explore the concepts behind hands-on/experiential/kinesthetic learning and identify best strategies/practices by which to build and critique lesson plans. Each participant will create six lesson plans that fit in the 50-minute class session. Classmates will share lessons across the online platform for feedback that leads to revision. Students will present two of the six revised lessons in person during face-to-face sessions for practical evaluation.

HY41	Instructor: TBA	Seats (Total: 15)
	Meets July 8, 2019 - July 26, 2019	
	M 10:00am - 1:30pm	PAC 1924
	Class time/details on ELMs	ONLINE

THET789 **Master's Practicum**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Participation in creative and artistic activities with professional level theatrical organizations.

Contact department for information to register for this course.

THET799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

THET899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Audit

Contact department for information to register for this course.

TLPL Teaching and Learning, Policy and Leadership Summer 2019

TLPL413 **Teaching and Learning Middle School Mathematics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI457 or TLPL413. Formerly: EDCI457.

Methods of teaching and assessing the middle school mathematics curriculum. Understanding the conceptual difficulties students have in moving from whole numbers to rational numbers, additive thinking to multiplicative thinking, and arithmetic to algebra. Lesson planning and selection of technology and other materials are applied in the context of supervised tutoring of students having difficulty in middle school mathematics. Lab and field experience required. Supervised tutoring takes place on site at a local middle school therefore TLPL413 students will be expected to travel to a local middle school for 8-10 of the class meetings.

Contact department for information to register for this course.

TLPL420 **Knowledge, Reasoning, and Learning in Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL420 or EDCI411. Formerly: EDCI411.

For prospective science teachers. Investigations of the nature of knowledge, reasoning, and learning in middle and secondary science. Readings from cognitive science and science education research; studies of student thinking in interview and classroom observations; analyses of curricula. Includes laboratory and field experiences.

Contact department for information to register for this course.

TLPL451 **Teaching and Learning in Secondary Education: English**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: EDCI416 or TLPL451. Formerly: EDCI416.

An introduction for prospective middle and secondary English teachers into the basic issues, concepts, orientations, and processes that shape the teaching of English for diverse students in schools. Candidates explore their own perspectives in relation to local and national trends and develop basic teaching understanding and skills through on-campus seminars, teaching laboratory experiences, and guided field experiences. Students should reserve one full day or two half days per week for field experience.

Contact department for information to register for this course.

TLPL453 **Life in Two Languages: Understanding Bilingual Communities and Individuals**

Credits: 3 | Grading Method: Regular | General Education: DSHS, DVUP

Overview of society and individual multilingualism. Topics include diglossia, language shift, codeswitching, bilingual first language acquisition, language attrition, dual language education policy and practice.

WB21	Jeff MacSwan	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

TLPL470 **Knowledge, Reasoning, and Learning in Secondary Social Studies**

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department; and minimum cumulative GPA of 2.75. Credit only granted for: EDCI426 or TLPL470. Formerly: EDCI426.

An exploration of the nature of knowledge and reasoning in social studies disciplines as well as how students learn social studies. Assessment and investigation of students' conceptions and misconceptions as well as their disciplinary thinking. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools. This course is required for admission to the secondary social studies double major.

Contact department for information to register for this course.

TLPL488Q **Special Topics in Education; Building Community Through Visual Literacy and Narrative**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

HY31	Margaret Walker	Seats (Total: 10)
	Meets May 28, 2019 - June 22, 2019	
	Contact instructor or department for details. Class time/details on ELMs	ONLINE
	This course will meet synchronous online and face to face at a communit location. Please contact instructor for more information.	

TLPL498 **Special Problems in Education**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Exploration of current problems in teaching, learning, policy and leadership. Available only to students who have definite plans for study of approved problems.

Contact department for information to register for this course.

TLPL602 **Foundations of Technology in Education**

Credits: 3 Grading Method: Regular, Audit

Provides a big-picture survey of technology in education and lays the groundwork for future coursework on the role of technology in education. This course will tackle both theoretical and practical dimensions of technology in education. After completing this course, students will have an understanding of the potential for the uses of technology for teaching and learning, identify the different roles technology can play and be ready for a hands-on introduction to specific topics/tools/pedagogies related to teaching and learning with technology.

Contact department for information to register for this course.

TLPL613 **Problem-Solving and Innovative Thinking in the Mathematics Classroom**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Experience teaching mathematics K-12. And TLPL312; or TLPL413; or students who have taken courses with comparable content may contact the department. Credit only granted for: EDCI653 or TLPL613. Formerly: EDCI653.

Curriculum and instruction for developing thinking skills through the discipline of mathematics. This is a hybrid course designed to blend on-campus class meetings with online experiences.

Contact department for information to register for this course.

TLPL641 **Reading, Cognition, and Instruction: Reading in the Content Areas I**

Credits: 3 Grading Method: Regular

Credit only granted for: EDCI625 or TLPL641. Formerly: EDCI625.

Provides middle and secondary education students with an understanding of the interactive nature of the reading process, the use of research-based instructional strategies, the relationship between vocabulary development and student concept development, the design of strategic reading instruction, the methods for assessing content area literacy, and the ability to plan instruction and communicate with students, parents, and allied professionals.

Contact department for information to register for this course.

TLPL642 **Processes and Acquisition of Reading**

Credits: 3 Grading Method: Regular, Audit

Restriction: For Master's Certification Students only; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI626 or TLPL642. Formerly: EDCI626.

Addresses the ways in which social, cultural, cognitive and motivation factors influence the development of literacy. Focus is on reading acquisition and its underlying processes. Topics include language development in relation to reading development; the biological basis of this development; concepts in emergent literacy; models of reading acquisition and skilled reading; the effects of phonemic awareness and phonics on developing readers; factors in early childhood environments and in beginning literacy instruction that impact language and literacy achievement.

Contact department for information to register for this course.

TLPL646 **Linguistics in Education**

Credits: 3 Grading Method: Regular

Provides teachers and educational researchers with the theoretical and technical knowledge of linguistics necessary to engage effectively in their fields.

Contact department for information to register for this course.

TLPL647 **Diagnostic Reading Assessment and Instruction**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI662 or TLPL647. Formerly: EDCI662.

Survey course in diagnostic reading assessment and instruction for graduate students not majoring in reading.

Contact department for information to register for this course.

TLPL655 **Student Assessment in the Second Language Classroom**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI631 or TLPL655. Formerly: EDCI631.

Analysis of standardized and teacher-made FL/ESL tests; emphasis on principles of FL/ESL test construction. Field testing of commercial and teacher-made materials.

Contact department for information to register for this course.

TLPL660 **Foundations of Literacy and Biliteracy Development**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL665. Credit only granted for: EDCI636 or TLPL660. Formerly: EDCI636.

An overview of the research on literacy and biliteracy development for English learners. Specifically, the course explores the theoretical models and processes of teaching reading and writing, current literacy/biliteracy issues, assessment, and strategies for developing literacy and biliteracy skills for English learners.

Contact department for information to register for this course.

TLPL662 **Second Language Acquisition**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI732 or TLPL662. Formerly: EDCI732.

Major theoretical approaches to second language acquisition. For teaching English to speakers of other languages (TESOL).

Contact department for information to register for this course.

TLPL664 **Foundations of Second Language Education: Legal, Social and Historical Trends and Issues**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI630 or TLPL664. Formerly: EDCI630.

Knowledge of history, research, current practice and public policy issues in the field of second languague education from kindergarten to post-secondary settings. Required for TESOL certification program.

IH25	Jeff MacSwan	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
	Z128 Outreach Program. Registration restricted to program participants.	

TLPL665 **Methods of Teaching ESOL**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI634 or TLPL665. Formerly: EDCI634.

This course presents a survey of the historical and current approaches, methods, and techniques of teaching English to speakers of other languages, from grammar to translation to audiolingual and communicative approaches. Additionally, successful classroom practices that address the needs of culturally diverse and language minority students will be analyzed.

IH25	Sarah Moore	Seats (Total: 25)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE
	Z128 Outreach Program. Registration restricted to program participants.	

TLPL668 **Developing a Professional Portfolio**

Credits: 3 Grading Method: Regular, Audit

Students will examine issues of performance assessment and develop professional portfolios following the guidelines established by the National Board of Professional Teaching Standards. Drawing on the research data collected throughout their program and relying on inquiry, reflections, and analysis, they will synthesize and present the body of their teaching experience.

0101	Maria Hyler	Seats (Total: 25)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 5:00pm - 8:10pm	ASY 3215

TLPL676 **Teaching as a Profession**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI690 or TLPL676. Formerly: EDCI690.

The profession of teaching and the knowledge base that defines teaching. Current and social issues that affect teaching and learning; role of research and experience in learning to teach.

Contact department for information to register for this course.

TLPL688B **Special Topics in Education; Foundations of Education**

Credits: 3 Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

Contact department for information to register for this course.

TLPL688F **Special Topics in Education; Embracing Diversity: Foundations**

Credits: 3 Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

Contact department for information to register for this course.

TLPL688I **Special Topics in Education; Art Integration**

Credits: 3 Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

WB61	Margaret Walker	Seats (Total: 15)
	Meets July 29, 2019 - August 16, 2019	
	MTuWTh 8:30am - 5:00pm	ONLINE

TLPL688N **Special Topics in Education; Nature Pedagogy in Nature-Based Early Childhood Education Part I**

Credits: 1 Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

WB21	Daniel Levin	Seats (Total: 10)
	Meets July 8, 2019 - July 12, 2019	
	Class time/details on ELMs	ONLINE

TLPL688O **Special Topics in Education; Nature Pedagogy in Nature-Based Early Childhood Education Part II**

Credits: 1 Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

WB21	Daniel Levin	Seats (Total: 10)
	Meets August 12, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

TLPL688Q **Special Topics in Education; Building Community through Visual Literacy and Narrative**

Credits: 3 Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

HY31	Margaret Walker	Seats (Total: 10)
	Meets May 28, 2019 - June 22, 2019	
	Contact instructor or department for details. Class time/details on ELMs	ONLINE

TLPL689 **Internship in Education**

Credits: 1-12 Grading Method: Regular, Audit

Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

Contact department for information to register for this course.

TLPL691 **Research Methods**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI685 or TLPL691. Formerly: EDCI685.

The interpretation and conduct of research relevant to curriculum, teaching and learning.

0101	Wayne Slater	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 4:30pm - 7:45pm	ATL 2330

TLPL698 **Conducting Research on Teaching**

Credits: 1-3 Grading Method: Regular

Analysis and improvement of educational practice. Research methods used in the study of classroom teaching. Design and conduct of an action research project. Open only to students admitted to approved teacher education programs.

Contact department for information to register for this course.

TLPL733 **Advanced Clinical Practices in Reading Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL654. Corequisite: TLPL734. Credit only granted for: EDCI761 or TLPL733. Formerly: EDCI761.

Clinical practicum in assessment focusing on strengths and needs in reading. Case report writing and conferences.

I101	Ayanna Baccus	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 8:00am - 12:00pm	Location: TBA

TLPL734 **Advanced Clinical Practices in Reading Instruction**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL654. Corequisite: TLPL733. Credit only granted for: EDCI762 or TLPL734. Formerly: EDCI762.

Clinical practicum in instruction focusing on instructional techniques and diagnostic teaching.

I101	Ayanna Baccus	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	MTuWTh 12:00pm - 4:00pm	Location: TBA

TLPL788M **Special Topics in Education; Critical Qualitative Research**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

HY11	Beth Cohen	Seats (Total: 20)
	Meets June 25, 2019 - July 11, 2019	
	TuTh 5:00pm - 8:00pm Class time/details on ELMs	ASY 3211 ONLINE

TLPL788O **Special Topics in Education; Cultural Encounter, Identity, and Experience in Education**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

HY11	Beth Cohen	Seats (Total: 15)
	Meets May 28, 2019 - June 20, 2019	
	TuTh 5:00pm - 8:00pm Class time/details on ELMs	ARC 1105 ONLINE

TLPL798 **Special Problems in Education**

Credits: 1-6 Grading Method: Regular, Audit

Exploration of current problems in teaching, learning, policy and leadership. Available only to master's or doctoral candidates under the direction of their advisors.

Contact department for information to register for this course.

TLPL889 **Internship in Education**

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

0115	Andrew Elby **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0215	Andrew Elby **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I221	John O'Flahavan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

TLPL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0107	James McGinnis **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0207	James McGinnis **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

TLPL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

0111	Janet Walkoe **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0112	Andrew Brantlinger **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 5)
0211	Janet Walkoe **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0212	Andrew Brantlinger **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0216	Betty Malen **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0218	Wayne Slater **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
0220	Francine Hultgren **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I220	Francine Hultgren **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)
I221	John O'Flahavan **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 5)

TLTC Teaching and Learning Transformation Center

Summer 2019

TLTC333 **Fundamentals of Academic Peer Mentoring**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of TLTC required - enrollment restriction.

How should scientific research influence the way we study and advance the academic performance of others? Learn about the scholarship of teaching and learning and develop the applied skills to support active learning as an academic peer mentor. Whether or not you ultimately pursue a career as an educator, the more effectively you can coach and support the performance of other people, and the more successful you will be. Guided online and face-to-face participation will culminate in a portfolio of your teaching activities and professional development.

XT11	Alexis Williams	Seats (Total: 10)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details. Class time/details on ELMs	ONLINE
	Click here for more course information.	

TLTC399 **Independent Study in Academic Peer Mentoring**

(Perm req)

Credits: 1-3 Grading Method: Regular

Earn academic credit for the time spent supporting a course in TLTC's Academic Peer Mentoring Program (AMP).

Contact department for information to register for this course.

TLTC798 **University Teaching and Learning**

(Perm req)

Credits: 1-2 Grading Method: Regular

Special topic courses directed at experienced graduate teaching assistants who are interested in university teaching and learning issues. Can be used by students for participation in the Universtiy Teaching and Learning Program.

Special topic courses directed at experienced graduate teaching assistants who are interested in university teaching and learning issues. Can be used by students for participation in the University Teaching and Learning Program.

0101	Marissa Stewart	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	TuTh 9:30am - 12:00pm	ESJ 1103

UMEI Maryland English Institute Summer 2019

UMEI005 **Advanced English as a Foreign Language**

Credits: 6 Grading Method: Sat-Fail, Audit

Semi-intensive course for the nearly proficient non-native speaker of English needing additional language instruction prior to undertaking full-time academic study. Speaking and listening skills; improvement of reading speed and comprehension; and development of writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

UM02	Cornell Brellenthin, Eda Aladagli Yoon	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	MTuWTh 10:00am - 11:50am	JMZ 2125
	MTuWTh 1:00pm - 2:50pm	JMZ 2125

UMEI012 **Integrated English: Intermediate**

(Perm req)

Credits: 5 Grading Method: Sat-Fail

Prerequisite: Placement exam; and permission of EDUC-Dean-Maryland English Institute department.

English as a Second Language course for students at the intermediate level.

UM10	Heather Mehrtens	Seats (Total: 16)
	Meets June 3, 2019 - July 19, 2019	
	MTuWTh 9:00am - 12:30pm	COL 3109

UMEI013 **Integrated English: Advanced**

(Perm req)

Credits: 5 Grading Method: Sat-Fail

Prerequisite: Placement exam; and permission of EDUC-Dean-Maryland English Institute department.

English as a Second Language for students at the advanced level.

UM10	Eric Walker	Seats (Total: 16)
	Meets June 3, 2019 - July 19, 2019	
	MTuWTh 9:00am - 12:30pm	COL 3110
UM11	Christopher Vizcarrondo	Seats (Total: 16)
	Meets May 28, 2019 - August 16, 2019	
	MTuWThF 9:00am - 12:30pm	ATL 0201

UMEI028A **Special Topics in English as a Second Language; Preparation of Academic Study in an American University**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012 or UMEI013; but may be taken independently with special permission.

UM10	Raymond Smith	Seats (Total: 25)
	Meets June 3, 2019 - July 19, 2019	
	MW 1:30pm - 3:30pm	ASY 3215

UMEI028E **Special Topics in English as a Second Language; Presentations**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

Focus on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

UM10	Jonathan Malone	Seats (Total: 25)
	Meets June 3, 2019 - July 19, 2019	
	TuTh 1:30pm - 3:30pm	ASY 3215

UMEI028V **Special Topics in English as a Second Language; Vocabulary**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012 or UMEI013; but may be taken independently with special permission.

UM10	Louise Godley **Meets June 3, 2019 - July 19, 2019** M 1:30pm - 3:30pm F 9:00am - 11:00am	Seats (Total: 25) ASY 3221 ASY 3221

UMEI028X **Special Topics in English as a Second Language; Exam Preparation**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

Focus on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

UM10	Louise Godley **Meets June 3, 2019 - July 19, 2019** W 1:30pm - 3:30pm F 11:00am - 1:00pm	Seats (Total: 25) ASY 3221 ASY 3221

UNIV University Courses Summer 2019

UNIV099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

Permission of Internship Coordinator required. Obtain signature and more information at the Career Center, 3100 Hornbake Library. Special fee required for this course.

CP20	Erica Ely, Erin Rooney-Eckel, Trisha Hongcharti **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 84)
CP21	Erica Ely, Erin Rooney-Eckel, Trisha Hongcharti **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 90)

CP22	Erin Rooney-Eckel **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 20)

UNIV100 **The Student in the University**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.

Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.

0101	Georgette Hardy **Meets June 17, 2019 - July 26, 2019** MW 2:00pm - 3:45pm	Seats (Total: 10) Location: TBA
0401	Georgette Hardy **Meets July 8, 2019 - July 26, 2019** MTuWTh 2:00pm - 3:45pm	Seats (Total: 15) JMZ 0122

UNIV102 **Confidence Building and Study Skills in Mathematics**

Credits: 2 Grading Method: Regular, Pass-Fail

Restriction: Must be in uTerp Individual Admits program.

A mathematics preparatory class designed to facilitate a student's transition toward fundamental studies mathematics, including study skills and strategies for success.

LS21	Colleen Terpos, Nicholas Acha **Meets June 17, 2019 - July 26, 2019** MWF 9:00am - 11:00am	Seats (Total: 20) PLS 1115
LS22	Colleen Terpos, Mary Petras **Meets June 17, 2019 - July 26, 2019** MWF 9:00am - 11:00am	Seats (Total: 20) PLS 1184

LS23	Colleen Terpos, Matthew Wilson **Meets June 17, 2019 - July 26, 2019** MWF 9:00am - 11:00am	Seats (Total: 20) PLS 1172

UNIV104 **Reading and Writing at the College Level**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Restriction: Must be in uTerp Individual Admits program.

A workshop designed to enhance students' college level reading and writing abilities to include study skills and strategies for success.

Must be in uTerp Individual Admits program

LS51	Nicolette Polek **Meets June 17, 2019 - July 26, 2019** TuTh 9:30am - 11:00am	Seats (Total: 20) JMZ 0118
LS52	Ruth Morris **Meets June 17, 2019 - July 26, 2019** TuTh 9:30am - 11:00am	Seats (Total: 20) JMZ 0122
LS53	Sabrina Islam **Meets June 17, 2019 - July 26, 2019** TuTh 9:30am - 11:00am	Seats (Total: 20) JMZ 0125

UNIV269A **Connecting Across Cultures**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV269C **Connecting Across Cultures; China: Culture, Language and Internship Program**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV326 **Beyond the Classroom Seminar II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: UNIV325. Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Seminar for students in internships and service-learning experiences as context for applying communication skills and knowledge of civic engagement leadership skills first introduced in UNIV325. Must be taken concurrently with experiential learning practicum.

WB11	James Riker	Seats (Total: 15)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

UNIV339 **McNair Research Methods and Writing**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

As an introduction to qualitative and quantitatvie research methods, students will be taught how to: (1) create, analyze, and disseminate knowledge conceptually and empirically; (2) write a research document; (3) use the IRB process; (4) develop research posters; (5) read and evaluate research studies; (6) read and understand statistics; (7) conduct interviews, develop surveys, and design experiments; and (8) communicate effectively to public audiences.

CP01	Rhea Nedd	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	MF 9:00am - 5:00pm	TYD 2110

UNIV389J **Special Topics in Undergraduate Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	Joan Burton **Meets May 28, 2019 - July 5, 2019** Contact instructor or department for details.	Seats (Total: 25)
0201	Joan Burton **Meets July 8, 2019 - August 16, 2019** Contact instructor or department for details.	Seats (Total: 25)

UNIV399 **Experiential Learning in Undergraduate Studies**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

Contact department for information to register for this course.

URSP Urban Studies and Planning Summer 2019

URSP399I **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP705 **Summer Community Planning Studio I**

Credits: 4 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Intensive community planning group field work, typically five days a week for four weeks. Often outside the USA. Application of class work to actual planning and policy challenges. Students seeking to meet the URSP studio requirement must also take URSP 706.

A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

HY11	Uri Avin, Pamela Lebeaux **Meets May 28, 2019 - July 5, 2019** MW 6:00pm - 9:20pm Class time/details on ELMs	Seats (Total: 20) ARC 1119 ONLINE	 Discussion

SARU	Madlen Simon, Tanya Bansal	Seats (Total: 1)
	Meets July 7, 2019 - August 4, 2019	
	Contact instructor or department for details.	

URSP706 **Summer Community Planning Studio II**

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Intensive analysis and report-preparation of work completed in URSP 705 Held in College Park. Students seeking to meet the URSP studio requirement must also take URSP 705.

0201	Uri Avin, Pamela Lebeaux	Seats (Total: 20)
	Meets July 8, 2019 - August 16, 2019	
	MW 6:00pm - 9:20pm	Location: TBA

URSP709 **Field Instruction**

Credits: 3 Grading Method: Regular, Audit

Students will satisfy a 300-hour internship (20 hours for 15 weeks during the spring, 25 hours a week for 12 weeks during the summer). Suitable internships are approved by the Internship Coordinator or Instructor; they involve a significant amount of planning work (preferably in the student's are of interest) and provide an appropriate on-site supervisor. The Internship Coordinator will assist students in finding a suitable internship, but the ultimate responsibility rests with each student. Whether the internship is paid or not is a matter to be worked out between the student and the organization.

0101	Casey Dawkins	Seats (Total: 20)
	Meets May 28, 2019 - July 5, 2019	
	Contact instructor or department for details. Contact instructor or department for details.	
0201	Casey Dawkins	Seats (Total: 5)
	Meets July 8, 2019 - August 16, 2019	
	Contact instructor or department for details. Contact instructor or department for details.	

URSP788 **Independent Study in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP798 **Readings in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular

Directed readings in selected aspects of urban affairs and planning.

Contact department for information to register for this course.

URSP799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

URSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Selected topics in Urban Studies and Planning. Topics will vary with the instructor.

Contact department for information to register for this course.

URSP899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

This course is a required course for the Ph.D program in Urban and Regional Planning and Design.

Contact department for information to register for this course.

USLT Latina/o Studies Summer 2019

USLT498X **US Latina/o Studies: Special Topics; Globalization and Gendered Migrations**

Credits: 3 Grading Method: Regular, Audit

Specific content to be announced when courses are offered.

Also offered as AMST498Z. Credit only granted for USLT498X or AMST498Z. This course will explore how scholars have theorized and defined the process of contemporary globalization and its consequences. Students will look at the relationship between local communities and the global economic and political forces that affect the daily lives of many Latina/os in the United States. Although this class has a United States and Latina/o focus, we will also move beyond the U.S. borders and talk about other immigrant and refugee groups that live and work in the same neighborhoods and workplaces in which Latina/os live and toil. Themes of the course include, but are not limited to, theories and approaches to globalization, refugees, sexuality and family along the border, transnational families, gendered migrations, sweatshops, intimate labor, and Deferred Action for Childhood Arrivals (DACA).

WB21	Jacqueline Partida	Seats (Total: 15)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

WMST Women's Studies Summer 2019

WMST250 **Introduction to Women's Studies: Women, Art and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

An examination of women's creative powers as expressed in selected examples of music, film, art, drama, poetry, fiction, and other literature. Explores women's creativity in relation to families, religion, education, ethnicity, class, sexuality, and within a cultural tradition shaped by women.

WB11	Clara Montague	Seats (Total: 30)
	Meets May 28, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE
WB21	Justin Sprague	Seats (Total: 30)
	Meets July 8, 2019 - August 16, 2019	
	Class time/details on ELMs	ONLINE

WMST269A **Special Topics in Study Abroad II; Women and Addiction**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269C **Special Topics in Study Abroad II; Modern Chinese Culture: Women's Studies**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269F **Special Topics in Study Abroad II; Women in Spanish Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269M **Special Topics in Study Abroad II; Mexican Society: History and Gender Issues**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST298D **Women's Bodies in Contention**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSHS, DVUP, SCIS

WB51	Sydney Lewis	Seats (Total: 40)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

WMST369G **Special Topics in Study Abroad III; Gender and Post Socialist Transformation in Central Europe**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST369K **Special Topics in Study Abroad III; Spanish Gender Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST386 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Restriction: Must have Learning Proposal approved by Women's Studies Academic Advisor; and junior standing or higher.

Contact department for information to register for this course.

WMST469E **Study Abroad Special Topics IV; European Women from Past to Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST469M **Study Abroad Special Topics IV; Sociology, Gender and Indigenous Beliefs in Mexican Cultures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST471 **Women's Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Restriction: Must be in a major within ARHU-Women's Studies department; or must be in a major within SPHL-Behavioral & Community Health department. Cross-listed with HLTH471. Credit only granted for: HLTH471 or WMST471.

The women's health movement from the perspective of consumerism and feminism. The physician-patient relationship in the gynecological and other medical settings. The gynecological exam, gynecological problems, contraception, abortion, pregnancy, breast and cervical cancer and surgical procedures. Psychological aspects of gynecological concerns.

For the summer, restriction is not in effect. Students of all majors are eligible to register and take this course.

WB31	Tracy Zeeger	Seats (Total: 50)
	Meets May 28, 2019 - June 14, 2019	
	Class time/details on ELMs	ONLINE

WMST498M **Advanced Special Topics in Women's Studies; Women and the Civil Rights Movement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as HIST360 and AASP498I. Credit granted for WMST498M, HIST360 or AASP498I.

WB51	Elsa Barkley Brown	Seats (Total: 40)
	Meets June 17, 2019 - July 5, 2019	
	Class time/details on ELMs	ONLINE

WMST499 **Independent Study**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and writing or specific readings on a topic selected by the student and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST699 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.